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WO 01/53312

PCT/US00/34263

Seq ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *stop Codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
5906	146	2038	IRKLEGGHHHVVVCDPFDGALLTASYDTRVYINDPHNGDILM EFGHLEPPPTTIFAGGANDRMVSVSFSDGLHVASLADDDKMR FWAIDEDYVQVAPLSNGLCAPSTGSLAAGTHDGSVYFWMAT PROVFSLQHLCRMSIRRVNPTQEOSELPIPSKLLFLSYRL RBAAGSGRNAAG\YNPYIRITEQPRQRMFRYKCBGSAOST PGEHSTDNKRTYPSIQIMNYGKGKVIRITLVTKNDPYKPHPH DLYGKDCRD\LAGYKAFGCE\RRP\LPFCN\LGIRCVKKKEVKE A\ITPA\KAGINPFDV*HGLNDIECD\DVRLAFRVFLPDG HGN\ATLALPPV\SSPIYKDPRA\PTTALBELRVCRNKGCSVRGG DEIFLLCDKVQKDIIEVRFVLNDNEAKGIFPSQADVHRQVALVFK TPFYKKAITEPVTVKMLRPSDQEVSESDNRYLPDEXDITYGN KAKKIKTITLLFQKLCQDHVEGFRRHVDQDGLLELLTSQDPTLAS QSAGITVNFPERFOLLGSIQBGYRFFKCEPNLFSHDVAVREMP TOVSSQAESYYPSPGPISSGLSHHMASPLSSSSWSSVAHPTTR SGNTNPLSSSFTRTLPSNSQGIPIPF\RI PVGNDLASNACIYNN ADDIVOMBEASSMPSADLYGISDPNMLSNCSYVMNMTSSDSMOET DNPRLLSMNLENPCNSVLDPRDLRLQLHOMSSSSMSAGANSQY VFVSQSDAFEGSDFS CADNSMINESGPNSTIPNHSVFNQDQVY SGISQMONBQLSDSFFPYEFQV TYLSSWSST*VLDHTKISQVKV/RXGKHKISWIFYPQPAKQNGK DLYGKDCRD\LAGYKAFGCE\RRP\LPFCN\LGIRCVKKKEVKE RQPRRTTIESYQDVLBEREFHEKEVLCQINHPFQDDSAIRK ATYKEPRKVVYSVLLVLDLARDPDLGCRCPKRWKVAQAGNK KLVLVLNKLIDLVPEKVEVKNLWLYRNLPLTVAFTKCHQVGL NRCSPVPDQASESLKSKACFGARNLMRVLQNYCRLEGVTHIR VGVVGLPNVKGSLINSLKSRACSGVAVGPITKFMQEVYLOKF IRLLDAPGIVPGPNSEVOTILRNVCVHQKADPVTPTVETILQRC NLBESINTYGVSGFQITHEFLVAHAHRLKKKKGLYSGQBAK AVLADNVSGKISFYIPPATHTLPTILSAEIVKEMTEVFDIEDT EQANEDTMECLATQESDILLQDTPLEMEIKLLHSPWTKIADAI ENKITYYKIGDLTGCTNPRRHQMGWAKRNVDRPNSMSMVDC SVDEESVLQIRIMETDPLQQQALASALNKIKMGKRAKDITASL SSWSMALDLSGRADQGVGD KCTIKESGSSGSPSSGSGFQCGCQIPEPSLFSSEETHPHTRA HTRLKATLRRPSPSSGTLAPHPDLQCKLASH\PMRRER* GMRPAKAGASLGVAAGTGKRCRMSKRYLQAKWQKLLIIFI VTLAGKVSSANHHKHAHVKTQCEVVALHRCOMKWKIHERSQT VKCSFPGQVAGTTTRAAPS CVDAISIEVQKWNCHQPCLEGBECK VLPRKGNSSCGSKVKVTETVTH PATPGSTIINAPGSHSAFADGRHGLSPGSOQAPGALCARAPP SSNLRADRSMICQARAGYNLYHNRPLGLAA\GPPSRNSQSLRR CEPIRYSYNPDQPHNMDLGGPHDQVTI\PRSTSITDLVTS\SR STIMKSSSYYSIGHSQDLV\IWDIKKEVVDAGWIGKYLIDEVLS ENFLDYKRGVNGSHRQCI\IWKIDASSYFVPEPTKICPKFYHG SGALRATTPSVTVNSAAPP\IKS\IGADETV\Q\QGSRRLLISFSL DFQAMGLKKGFMFNDPYLKI\S\IQGKHISIFALPHQOERRSK IIGTVNIEIMQAGQSFVSFLPTDVLSEIVDKFAKSRP\IKRPL GKLANVQRLLRHAIHGRVSVYTLGRLELPTNINSQOLQFRFEI TS\IHEDEISLSTSPESQ\I\QSPVNLNINSQSGFRSRAPE SS\SKWPEQLGDSVPDRPGNSILS\PAATVATYETACDCH VSVGPPEGAGEL\AQVQDIQAPSAKELAEQ\DLGEBASALLE DGA\PASTKEE\LEKATQSGRAGEEKEEKEEEDVSTLEQ EGR\QLRASVKRKS\RPCSLPVSELBTVLASACQDPEPTRTHYIR IHTLHSMSPACQGSAAEEDGAEEESTLKDSSEKDLGSEVDTV AADPSALEEDREPEGATPTTAHPGHSQGHF\PSIANGAAQDGT HPTSGSSESDSP\Q\GDHSCRCGD\ASCSPSCYS\SSCYTS\CY SSCYAS\SCYS\PSYNGNR\FASTRFS\SDVSAKIS\ESTVFS\QDD EEENS\AFBS\VPDSMQSP\ELDPEST\TGAG\WQDELAAPSGHIVER SP\EGLES\PVAG\PSNRREGECP\ILHNSQFVS\QLP\SLR\PEHHYPT IDEP\LPNWEARLDSHGVRVYVDHNVRTT\Q\Q\PAATVATYETACDCH RSGS\IQQEBQLNRRYQNIQRTIAT\TRESSEDSGSGSCQAPAGGG
5907	99	1873	
5908	247	975	
5909	1	5002	

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			GGGSDSPASSQSGLDLPFGSLSPNNGKILLQSPAVKFT TNPEFTVLHANYSAVYVFTSSCTCLQMLLVKVRDARNFERVQH NRDLVNFIMNFDTRLELPRGWEIKTDQOQSFPVDHNSRATTF IDPRIFLQNGRLPHMLTHROHLRLRSYSGAKRASVSRNRGASL LARPGHSLVAIRSQHQHESLPLAYNDKIVAFRLQPNIFEMLQE RQPSLARNTLREKIHVIRTSNNGHLEKLSCADLVILLSLFEE EIMSYVPLQAAFPZGYSPRCSPSSPQNSQLQACARAPSP YRDRFEAKLENFVRKLEAKGPGQPGKIKLITIRDHLEGTFNQ VMAYSKELOQRNKLIVTFVGSBGLDYSQPERFFLLSQRLFNP YVGFEYSANDTYYQISPMASAVENHLEWFRSPGRILLQALALI EQYLLDRAFTVFPYTRALALRLCPADLSDELYIDREFFQSLQW MDKMDITDIDLTPFVMEVFOQUTERLESQGANVQYTERNKK VLEIEMVKWRVERGVQOCTALVRGPYTVVDELLVSVFARLE IVVAGTASIDLNRWNRNTEYRGVGHDLVIRVMAAVERPNE QRLLELQFVTGTSVVPYGFAPAPPEMGLRPLP*KKMGKITS LPPRG/HTCLQPDNDLPTVSPTTLMLEYKLLITA\VBETSFTGT
5910	1526	446	VAEFAAMEPGRTQIKLDPRTADLELVLTNYGIPSAQSPQPT AAQLLHALGPEVALTSLTLTALAGSIAIFLEDVAVLYKNTLCP IKRRTLLMKSSAP*VVSVLCCFGLMIPRSLVLEMTITSPYAVC PYLLMLVMVEGPGGKRAVLRITRVPMNVHTGPOCCCCPCCPL LTLKKILQ/R*CHALSNTPS*R*R*PMWACFSSPTASMTQQTFL RGACLTGSLTSSA/CSTLLALNTLIGISQRLHLGQNMGAKE ALQFVLILTLALQPSIPSVLANGGIACSPFYSSSTRSQVMNCH LLELTETFLVLTMYIRAKDHVIGTISPSPOLDLNKLRLRM AMTWGCGCTH
5911	109	595	QLPLAFCTQKGLEMRSPKQPSFTRSSSHAGLLVKNPSTPVF QHRRGGAFFKYKPTPVGPEQRPTQGHMRGQVLLSPRECS GTISAHCNLRPLPSSNSPAPAS*LAGITGVCHIAQLIFVFLVET GFHVQAGLELL/NVVIHLPRPPKVLGLQA
5912	524	277	MLNKLMLGALALTVMSPCGGEDIADHVASYGVNLVQSYGP SQQYSHFEDGDEEFPVDLERKETVQLPLFRFRFRFPQFALNT CAVLKHNLIIVIKRNSNTAATNEVFEVTFSEKSPVTLGGQNTLI CLVDNIFPPVNTIMLNGHVSVTGQVSETRSPSPKSDHFLQDO VTSPPFFPE*DL*TAKVQCLGAWPELPLKMGHAIPTTL
5913	46	1198	OLRMGABGAKQRQSELEFPVYSIDVJVEBDEDEENKACAVLGG DEKCSYQGSVFRQALVACSCTTPEGEEPAIGLACGYSCHGS HGLFELYIKRNRCCQGNKSPWNSCKLLPQAKVBNMGKNDN FPGLYCICKRPPYDEDEIDPEMIGCTVCEWDPORHLGAIPPS SGDQRMVQCAKMKRCSFLWVAQAQAVIKTISTAGMDIGOTIM E*/DDQEVIKPENGHRDSTLKEBVPCCGDDVREVIKVRQNSP CAGSSSESDLTQVFNKESLNARSKGGKQLQELKQLIKDTAT YWPLNWRSKLCTQCDMKMYGDLVLDVFLTDEYDTLAYENKGI AQATDRSDPLMDTLSSMNRVQVELIC/GIQ*FED
5914	960	124	NISSSELPPRRALFTQVAMNQREVDYSLASIEDMLVAI/GSRN RNGALSSVETYSKPTDSWSYVAGLPRFTYGHAGTLYKDPVYIG GHDYQIGPYKNTLCYDHRDVTWEERRPMTARGHWSMCSLQIS YSIGSSDDNIESMERFDVLGVEAYSPOCNQWTRVAPILHANSR SGVAVHGGRIYILGYSWENTAFSPATQVYVYDRADKWSRGVDP KATAGSACPAD*GLQRTKRRKAKARTTGASDSCASMDH PBRHLQGLCRPANTS
5915	1604	703	FGFRPRLPLFLGRKKRARIIGAPCHESRPRCPGPAQAPEA PASRABGPVAVVNGHTSGAPASAPKPPGLPRLGSPFPCPT PQEDFPALOGDCPRMPPSPGSAVLLIKGTTPPPPPGLVNPIS KPPPGSGLLPSPHP/VFSVAPPPPPPPQK/RPRLPAP/PGLPS PRKLPGKPSAHPVHQGLPAERRRGPLQVQELRGVGTQPDLS PVLQELPGPAGGFPRGT*AAAGPAH
5916	256	633	SPRNNEIWPWRHWSFSLGEGWPSRTIFSPSPDSTKGTSGKGR TVTGAVHRHLMHVAIIPWVLSQLKPTAATAGDQNTSQQYPDH PTRLITQ*QNTADKNN*TTALLQPHQRI/VSPRMEA
5917	1343	827	AHILTYLEP/ICLVVNYNKLIVFLTKSVIRI*KPIHTPQTYR

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5918	13	1247	P*NDFFGIKEVVSRRLRKTS/RLAVTFLSQAVVSKCVFVDQ FMEHLPSLISLADSPVNVVLLAKLRQMLEKAYFRNAGNP HLEVIETIILALQSDRDQDVSFFAALPKRRIIDTAVLEKQN EGAQVARRRSRQWAGRCGRGGRRAERTGGRGPPGRPLP PGFARRGRNRWETPFYUDEALSGLGASGSGUTFASGRLPPG APPTAAGSGMMKIDALISLSEVAAALKPAPASYPFPAADG APSAAPPOLLASPDLLKIASPELERLIIGENGLVTTTTTS QFLYFKVAASRGEQFAGQVKALDELKQNLQAGFAAAAAA AGGPGCTGATGSAPGELAPAAAAPEAPVTA\NLSGYAGCGCL RGGAAT\VAFAAEVPPFPPPPGALGPRR/RLAQGRPRQTV PDVP\SGGESP\PLSPIET\DTFRRI\KAKRRI\RNQIRAKP PASRKLGAQSKALERESSEDS*SPHGSLASTSLRLRQVAKLK QKVLSHVNSGCOLLPOHQVPAY
5919	1	4254	TSVQDSQQTPTSSQGSINMEHWISIAIHGISTTSTSSSTQSG GSGAAHRLADVMAQTHIENHSAPDVTYTSSEHSIQVERPQGST GSRTPAKYGNABELMETGDGVVSSRSVAKIQQLVNTLKRPKRPP LREFFVDDFSEELLEVQQPDNPQKXPGAQMLMRGSLGVLNTW PPSEALALQWGTISPKAPCLTMDTNGKPLVILTYGKLNTRSM KVATISLLKLGTKOEPHVRPGDRVALVFPNNPAPAAFAFYGCL LAEVVPFPIEVLTRKDMGSGQIGFGLSGCVTVALTSDACHG LEKSPTELEIQPKWPKLWFTVSEKLSKPFDFW\PHHIDAN NDTAYIEYKTKCKDGSVLGVTVTRTALTTHCAQLTQACCEAE TIVNVLEPKKDVGHLWHSITLSVNMNMHVISIYSLKNNPLSWI QKVCQYKAKVAVCSKRDMMHVALVHRDQDINLSLRLNIVADG ANFWSISSCDAFLNVTSQKGLRQEVICPCASSPEALTVAIRRT DDSNQFPFGVLSMHGLTVGVIRVDSSEKLSVLTVQDVLNMPG AIMCSVKPDGVQPLCRDTEIGELCVCAVATGTSYGLSGMTKNT FEVFAMTSSGAPISREYPIRTGLGFPVGGVLVVGKMDGLMV VSGRRHNNDDIVATALAVEPMKPYRRIAPSVTVLHDERIVI VAEQRDSTSEDSFQNNRSVLQADISIHCVGVYCLALVPANTLP KTFILOGIHLSETKQLFLEGLHPCNVLMCPHTCVTNLKPQRQK PEIGPASVMYGLVSGRKLQASGRDLQIGENNDQARKFLPLSE VLQNRACQTFPHLITLNLNCRAGLISLTCVGLHRAEKLAVML MGRHLQGDHVAAGVPPDGLDLIAFPGYGLZPCVETIYRPHF QKATLPTVVMIVSVRSALCMTTOLCKLLRBRBAEVAUVR TKPLILDTDD*PKRPAQICKPCNPDTLAYLDPSVSTGMGLAV KMSHAATGAPCRSIKLOCELYSPREVAICLDPYCGLGFLVNLCLC SVYSGHQSILIPSELETNPMLLAVSQYKVRDTPCSYSVMEL CTKQIGSQTESLKARGLDLSRVRTCVVVAERPRIALTQSPSKL FKDLGLHPRAVSTFGCRVHLAICQTSQDGPDTTVVDMRALR HBRVRLVERGSPHSLPMESGKILPOVRIILANPETGKPLDOSH LGEIWHVSAHNASGYFTIYGDSGLSDHFNRLSGFTQGTIWAR TGYLGLRLRTLTDANGERHDALYVVGALDEAMELRMRVHPID IETSIVRAHKSVTCEAVFTWNLVNVVVELDGSQDRLDLVPLV TNVHLEKHLIVGVVVVVDIGVIPINSRGKQKRLHRLDGLADQ LDPIYVANN
5920	1381	1499	QLQAVADG/SRIFF*LFPELPIFSLMLLRLKLP/HFGPASK VRPFPVPRRPAHISVVRQASTVPPVTVSTGRVAITQGTQGP SGVCCCTGRLPLPKCKSSAAMSTYRQVEIAWHIPOGEFTASM LAAPLHBOQKIMIGERLYPLIHVHTPLQACKITGMLEIDNSGL LMLKSPESLHAKIDRAVAVLQAIQAMQPKAYMH
5921	727	157	VCPPTGGE*GLWQGLQI*PKETPLKEMDASTSGSLKRRKFDVTV GSSVNSDDEISSDSADSCDLNPPTTASTFTPTSILKRGKQLR KONVRFDQTVVYFARRQGTFSVPSGGSSGLMAQRHNSVRSYT LCSEFAQGEQVMHREILREHLKEEKLIAKMKLITQNTVESVREAD GLTLDVDSDEIDVENVEVDVDFYLPPLTKRRKALLRASGVHR IDAEKQELRAIRISRECGCDCKRLCDPEACACSGAGIKCQVD RMSFPGCSKSDGCKNMAGRIEFNPIRVETHYHTIMKLELESKK QGAACQPOA*GALPDQQLQDPRSTGL*DPSSNIGSKGLSEFTQK AAATHLILILEVENRGABORR
5922	2475	495	SYSNWGLPFSVFICQVRSRTGNLKPFLFVSYR\CNSETLKG\T

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			CLYNATQYKVCSPRNDRPDACYNPSEPAATTVFIRITOLLSDT SKIITRTEEKEIPKQILTRFTACAAINSKKLEIGCGSLN*ERS* EVRNKYVCHESOVCKNCAYWPCVI*AT*KINKNDVYLKQKREAN PSCAAGHCNPLELLITNPLDPHWKGERVLTINRNLTKPKQVVI LIKGEVHKCSKPKVPQTIFYEELNLPPELLKKTGNLFIQLAENV IFLNGTSCYVRGGTIGDRWPWEA*ELVTPDPAIDIPI*KAE ASNF*VLKTSIIRQYCIAREGKDFIIPVGPNCIGQKLYNSTTK TTT*VHNTEKNPFSKSLKTA*AHASH*DMVPSGLY*IC RRRAYRLPKMWADSCVIGTTAPSPFL*LPKMSLLGPSVYASR EKGIVIGNWMDNWPERRIIGYQCPNTAQQSGWY/TZ/VY MLNNIIRIQAILEIISNETGRALTVLAWQETQNRNATYQNRLL DYLLVAEGGVCKRFNLTNCLQINDQQQVNIIVDMTKLAHP IQVWHKFDPSLPKMFPAIGGFTLIVGLVIRATCLLLPCVL PLLQMKIGIVATLVHQR*SAHVNMYNHYRSLSQRDSKSEDBSE NSH
5923	137	638	OLCRRGQRFRTSKRMHPT*ETCPMNL/IYLLSQENTQIRDL QQNRELNTSLEEHQCALELINSKYRQKMLQMWACKAVDAEPV LKAHQSHSABIESQIDRICEGEVRKRAVQVDDQFCRQIQEKL QLELENKELRELLSSISSESQARKENSMSTAQAIK
5924	274	2146	EKGKVDAGAEQVLSLSLSCGNETQPSNHLNLSLTPPVSRRN PLITVTLNANRHHMKLLCSKAPSTOLOQKIFLHSMQGIHHQ SVCKWKLKNTSHIISLILSQQWPLVLETLAPLITLTKPFTQD HMKFWNLPLSHHLTPSPVQTVVFKTQSSPEIKLTKITIQNG RELPESSLCQDLMLWQVASEVQ*NSQIESRKEKKRKNKIKDSR SEERKSHKIKLEPEEQNRPNRVDVTSEKPREEPVLKEGSPSS ANTIFCSNNGSVHW*FKFQVGLVMSKVGTIYWNPCNVSSDPQL EVHTKINTRGAREYHVQFSNQPERAMVHEKRVREYKGGHVEE LBAETKQASNNHSEKQIRKPRPQREARQNDIGIAHAEKALMT REERIQTFTIYIDKQPEALSQAQKSVASKTEVKKRPRPSVL NTQPEQTNAGEVASSLSSTERRHSQRRTSABEEPPPVKIAN LTAARSKSLPASTMHKSLDLQKCNMSPVVKEIQVAFALQNA*G DGKFDIQPVISTKIGINKTEISVREQQRLISTPMPQRNEKPTQS VSSPEATSGTSGVEKKQCRSIRTRSESEKSTEVVFKKKIKKE QVQFLVES
5925	216	1911	MNTAESREATLSPQAAQCKDGIIVVVRSEDEEDHNNQSTFL QDTPPPDPEIFRQRFRCYQNTQPREALRLKELCHONLRPE NTKQIQLLELLVLEQFLSLPKELQVNLQYRPSDGBEAVLTLE DLELDLSGQQVPGVGHGPEMLARGWELDPVORSSSFDLHIEAT QSHFKHSRRKPLILQSRALPAAHIPPAPHBSPRDQAMASALFT ADSQAMVKIEDMAVSLILEEWGQNLARRNLSDNRQENYGSAP PQGGERNNEESTSKAETSSEDSASRGETTGRSQKEFGKGRDQE GKTGERQCKNPEEKTRKEIKDSGAPAIKDKKTIIGERGPREKQ GLGRSPSLSSNFTTPEEVTGTGSHRCDECGKCTRSSSLIRIX LITHEKPYECSKQKAP*SLNS\WLVLHQRI\HTGKEPHECNE COKAFSSHSNLLHQRTSHSGEKEPHECNGKAPSGSD/LTXHQ R\ITHEKPYECSECKQAFWNSYLLHSHVITHEKPYECCKAQKQ \APTRSSITLHHRTHARERASEYSPASLDAPFLSCV SDSPHITFVHPPEHSAACAPATCCPPPSHS
5926	2	233	DRCLMLKQSGSQGSPAT/CEPAPFVYQACQSCVEPFGAHEP SDSPHITFVHPPEHSAACAPATCCPPPSHS
5927	4146	1248	KHFSKFGSQALYQKRPASGQNSISVNPQKTTTPAAKYGTPLA YKYGDKKLLHEKKPLQKHQAHTPEKRVNTGEBERRKISEAAK KRRLEFIEKEKKQKQDIIISIMAKQMKRQKERLERINEREGG WNNVLSAGSGEVKAPFLGSGGTIAPSFSVSSRGQYEHYHAFDQ MQQRAEDNEAKWKRIYGRGLPERQKGLAVERAKQVEEFLQR KRAMQNKARABGHMILQNLAAHYGRPSRSSRGKPFNKKESEV YLARLQIRLQNFNERQIKAKLRGKKEANHSQEQSGSEADN RRKK\IESIKAHANARAVALKEGLERKREKREYERKKVBEHLV AKOVSSDSVSPGLQGHITGSPSKQKRGVSVISYTSALKKEGVGVS SLIDTRTSEBEKKTWNAISAKWILSLIRANVITKQKQKQKQ LSDTFETINVEDAKHKEKSVSDRKWAGQVILFDELT LTSFTSTERNIPVGEVYIKLPGWSPRANGKSPDTSVLKILGEAR

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			<p>LQLOTELENTTIRSEISPEGEKYKPLITGKKVQCSHEINPS AIVDSPEVETKSPESSEASPMQSLKLEGNLEPDDLEETIPEPS GTNKDR\SLPCTITDVIWSEEKTKETQSDRITIQENVESEDG VSSTVQQLSDIHIEPGTNDQSHKCDVDKSVQPEPFFHKVHSE HLNLVPOVQSVQCSPEESFAFRSHSLPKNKNKNSLLIGLSTG LFDANNPKMLRTCSLFDLSKLFRTLMQVPTVGVQDNLEIDEI EDENIKEGSPDSIEDIVFESTDIDLQELQASMDQLLRBQGEKYS EEESVLKNSDVETPANGTDAVEDDNPSSSALNEEWHSDNSD GEIASSCECDSVPNHLLELRLHLEQMGPEKFEVYKIKATHE EDENIEICSKIVQNLGNHGHYAKILHLMVADGAYQEDNDE</p>
5928	4145	1248	<p>KIFSFKGSAIYQLXEFASQNSIUVFAQKITTPKAKYGTPLA YKCYGDKLKEKKPLQKHQAHOQTPKPEVMTGEERKISEBAR KRLEFIEKXKKQKQDQIISLMQAEQMKPCERLERINARAEQJ WRNLVSAGGSGEVKAPFLSGGTTIAPSSFSRQGYENHYHAIFDQ MOQORAEADNEAKWRBIYGRGLPERQKGLAVERAKVVEEFLQR KREAFQNKARAEHNGILQNTAANYGRRPSSSRGGKPFNKEEV YLARLQRIQLQNFERRQIKAKLRGKKEANHSQGESEADMD RRKIKIESLKAHANARAALKEQLERKKEAVEREKKVVEHLV AKGVXSDSVFPLQREITGGSPSKQMRVSVISVTSALKKEVGVDS SLTDTRETSBEHQKTNNAISSGREILRLRLNENLKAQDEKGNK LSDFTINVEDAKENHEKESVSDRKKNEAGGQVIFPLDELTL DISPSTTERTVTGVILKLGPNSSRANCKSPSTVSKLLGHEAE LQLOTELENTTIRSEISPEGEKYKPLITGKKVQCSHEINPS AIVDSPEVETKSPESSEASPMQSLKLEGNLEPDDLEETIPEPS GTNKDR\SLPCTITDVIWSEEKTKETQSDRITIQENVESEDG VSSTVQQLSDIHIEPGTNDQSHKCDVDKSVQPEPFFHKVHSE HLNLVPOVQSVQCSPEESFAFRSHSLPKNKNKNSLLIGLSTG LFDANNPKMLRTCSLFDLSKLFRTLMQVPTVGVQDNLEIDEI EDENIKEGSPDSIEDIVFESTDIDLQELQASMDQLLRBQGEKYS EEESVLKNSDVETPANGTDAVEDDNPSSSALNEEWHSDNSD GEIASSCECDSVPNHLLELRLHLEQMGPEKFEVYKIKATHE EDENIEICSKIVQNLGNHGHYAKILHLMVADGAYQEDNDE</p>
5929	3	1558	<p>LDPSMTTCLAEVATALLFTVSKASQCTPFAVHHAHTLFRAT LTPVPSRELAALANRNLLELGAITSRAQQAHLITPTVDAENAT WNFNRDSLVPYLEDIPDEPWNWIPCNKNRPGCTPVQSRSLCIA AKINSIYVANIIGDKKPCDTSDDQCPDGRGYQNTDVVPSDGG KLAVARYHKQNLPMGENQFNVPKPEBIVTPTNTFGSGPICTFCDI LPHDPAVT\VKDFHVDITVFTAMNVLPHLSAVEFHSWAMGM RVNFLASNITHYFSKMTGSGIYAPNNSRAFPYDMKTEEGKLLS QLDSHFSSHAVVNMTSYASSIEALSSGNKEFKOTVFFDEFTVK LTGVAGNITYVQKRLCCHLSYKNSINIPNEVYALGADGLHITVE GRYYLQICTLLKCKTNTNLCTGDSASTASTRFEMPSSLGTFGTQ VYFPEVLLSENQLAPGFQVSTDGRFLSPSSLKPTSGPVLITVFLGR VYFKDWSNASSGLTAQARIIMLIVIAPIVCSLSK</p>
5930	113	6082	<p>RGNKRVFPFTHQKTELESDPERYFVDRVAINVATQADWATK KLWVPISEKNIKPSKSKRGDRVWELASMKQAKWKKDQIQ KNNEPKSKVSDMAHLTCLAEASVHNLKDRYVSGLYTVPYDIF CVVINPYKNLPIYSENIIMYGRKKRHHMPHIVAISESAVRGM LQDREDSILCTGSGGAGKTENTKKVIQYLAHVASHGHEKDHN IPGE\LERQLLQANPILSFNGARTVONNSRFGKFRINFTV TGYIVGANIETYLEKSRVRAQKADERTHFYQLLSG\AGEHL KSDLLLEGFMNYRFLSNXYIPIGO\QDKGNFRDGPGEAMHTPG FSHEKILSMLKVSSVLQFQNSIFKKERNTOQASMPENTVAQKL CHLIGMNWNEFTRAILLPRIKVGDRYVQKATQEQADFAVEALA KATYERLFRVLVHRINKALDRTKQCASTGICILDLAGTEIFELN SFBQICINITYRNSKLQQLQNFHMTFIIQREYERQRIEWNFIDFGL ELAPCILDLEPANKPVSJALLDEBCHFFXATDKTFVFKLVQBG GSHKPKQKPRQAKADPCTIINHAQKVFVADKLNKNSDPLND NVATLLHQSSDRVAVRLKQWDRIVGLDQVGRTEFASQYK KXGMRFVQGIYKESLTKMLMTLRITNPNPVCICITPNKRAKCK LDPLHVLDLQRCMGVLSGRICRQSGPNNIVFQEPQRQRYEILTP</p>

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *Stop Codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
			<p>NAIPKGFMDGQACERMIRALSDPNLYRIGQSKI PFRAGVLAH LEERDLKITDIIIFPQAVCRGYIARKAPAKQQQLSALKVLQR NCAAYLKLRHWQWNRVFTKVKPLQVTRQEELQAKDEELLKVK EKQTKVGELEEMERKHQQLLEENILABQQAETELFAEABEN RARLAANKQELSEIILHDLSESRVEEESRNQILQNEKKKMQAHIQ DLEBQLDREBQARQKQLEKVTAEAKIKKMEERILLLEDQNSKF IKKKLLMEDRIABCSQLAKSEKAKNIAKIRNKQEVMSIDLE RLKKEEKTPOLEKAKRKLDEGTDDLDQQAIAELQADIELKLQ AKKKEELQGALARGDDETLHKNNAKLVVRELQQAIAELQEDPES EKASRNKAEKQKRLSEELKALKTELEDTLTAAQQLRTKRE QEVAEKKALEETKNHEAQIQDMQRHATALEELSEQLBOAKR FKANLEKNQGLTNDKELACSVKVLQOVIGASEHKKRKLDAQV QELIAKVSSEGDRVLRELAKSKLQNELEINVSTLEEAKEGKIK FADDAASLESQLODQORLEQETRKLNLSRIQLSEENSLQ EQCEEEERAKNLEKQVLAQSLADTKKKVDDDLGTIESLEEA KKKLLKDAEALSQRLEKALVLDLEKTKNRLEQQLDLDLTDVLD HGRQVANSLEKQIKKFDQLLEEEKISARYAEERDRAEARE KETALSALRELBALEABEPRQKQLRQWEDLMSSKDDVG KNVHELEKSPALQOYIEMETQLELEEDQEDDKRLRELV NMQNAQFPERDLOTRQNEKSKLLTKQVLELEABEENQ RLAVALAKKMEIDLKIDLEQLEBAKKARDEVIKQLRKLQAKV DYQRELEEARASRDEIFAQSEKSKLKSLEAFITQLEQLAS ERARRHABOERDELADEITNSAGKSAIDLEKRLARIAQLSE ILEEESQNMELNDRFRKTTLQVDTLNAELAESRAQKSDNAR QQLERQNKELKAKLQLEGAVKSPKFEATISALEAKIQLEBQLE QSAKRAAAAKLVRTKEIKELIFMQVEDERHIZADQYKQMEKA NARMKQLRQLEBAEBAERANARSKLQRELEDDATEANEGLSR EVSTLKNELRGGPISTFSSSRSGRQLLEBGALELSDDDTESK TSDVNETOPQSE</p>
5931	113	6082	<p>RNGCFHVPFPAKRGLEDPERYLVDRAVIYNPATQADWAK KLWVTPSEKCFEAASTIKERQDEVMLAENGKAMVKNDDIQ KMNPPKPVKDMABETCLAEASVLENLKDRYSGLITYTSGLF CVIVINPYKNIPIYSEMITENYRGKGEHEMPHITAISEAYKCN LDQREDSILCTGESGACKTENTKVIQYLAIVASHHGRKDN IPGEVLEROLLQAMPILSPONARTVQNDSSRFQKPIRINFDV TGYIVGANIETVILEKSRVRAQKDERTFHIFVQLLSAGLEHL KSDLLEGEFNNYRFLSNGYIPIPGQIQDKNGFRGDPGEAMHMG FSHEILSMLKVSVLQFQNTISFKIGERINTDQAMPENTVTAQKL CHLLGMNVMEFTRAILTPRIKVRDYGQKATQEQADFAVEALA KATYERLFRWLVRINKALDRTRKQASFIGILDIGAFETPELN SFGQLCINTYNTEKIQQLFNHTMIFLEQSEYQREGEWNPIDFGL DLQPCIDLIERPANPPGVLAALDEBCWPPKATDKTFVEKLVQEQ GSSSRFQKPRQLKDKADFCIIHYAGKVDYKADENLMKMDPLND NVATLHQSSDRFVARELNKMDRIVGLQVGTQNTETAPQSAKYT KKGWTRVQQLKBSLTKWALRNNEFNKCIIPNHEKRAKG DLPHVLVDOLRCNVLGRIICQGFQPARVFGFPAQRELELLTP NAIPKGFMDGQACERMIRALSDPNLYRIGQSKI PFRAGVLAH LEERDLKITDIIIFPQAVCRGYIARKAPAKQQQLSALKVLQR NCAAYLKLRHWQWNRVFTKVKPLQVTRQEELQAKDERLLKVK EKQTKVGELEEMERKHQQLLEENILABQQAETELFAEABEN RARLAANKQELSEIILHDLSESRVEEESRNQILQNEKKKMQAHIQ DLEBQLDREBQARQKQLEKVTAEAKIKKMEERILLLEDQNSKF IKKKLLMEDRIABCSQLAKSEKAKNIAKIRNKQEVMSIDLE RLKKEEKTPOLEKAKRKLDEGTDDLDQQAIAELQADIELKLQ AKKKEELQGALARGDDETLHKNNAKLVVRELQQAIAELQEDPES EKASRNKAEKQKRLSEELKALKTELEDTLTAAQQLRTKRE QEVAEKKALEETKNHEAQIQDMQRHATALEELSEQLBOAKR FKANLEKNQGLTNDKELACSVKVLQOVIGASEHKKRKLDAQV QELIAKVSSEGDRVLRELAKSKLQNELEINVSTLEEAKEGKIK FADDAASLESQLODQORLEQETRKLNLSRIQLSEENSLQ EQCEEEERAKNLEKQVLAQSLADTKKKVDDDLGTIESLEEA</p>

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *Stop Codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
			KKKLLKDAEALSCRLKEKALAYD\KLETFERR\QQLDDLTVLQD HQKQVASNLEKKQ\KKFQDLLEAKESIGARYAEEDRAEAANE KETKALSARALEBALEAKEBFRRQKQLRADMEDLMSKDDVG KNVHELEKSKRALEQQV\BEMRTQLELEDELEQATDAKRLLEV NQAMKAQFERDLQTRDEQNRREKRLLIKQVRELEAELEDERKO RALAVASKKMEIDLKLEAQIRANKARDEVIKQLRKLQACMK DYORELEBARASRDEIPAQSKSEKKLSLEAEILQLQELASS ERARRHABQERDELADEITNSASQSAILEKRLRARIQAQLEE ELEEEQSNMELINDRFKTTQLQVTLNLAELAASAAQKSDNAR QQLERQKSELKARQLELGAVKSKPKATTISALEAKTQGLESELE QEAKEPAMWLVARTTEKKLEIPKQVDEDERHADQYKQMEKA NARMKQLKQLEBAEAEATANASERKQLQQLDDATEANGLSR EYVTLNKLRRGGIPISFSSRSORRQLILGASLELSDDITK TSDVNSTQPPQSE
5932	33	572	RHLEETCFPIAQKQKLLKSGPRNEBEGPQPGGLVIAEAMNG FGATLAVGLTIFVLVVTIIICF\CSOCCLYTCRRPRPYAPP PHPP\PUVHAPYQPPSPVPSYQGYHTMPCQPMFAAPY PMQYPPYPAQMPGPAYHETLAGGAAPYPASOPPYNAYIDA PKAAL
5933	1	3190	QTRKLKADKTPGSSQKASSKTRSDVHSSGSDAHMDASGPSD SDMPSRTRPKSPRKHNYRNESARESLCDSPHQNLSPLEENKLLK AFSIGMSIAKRTLSKKQBELEKKKEDEKAJAEIYEEFLAAFG SDGKIKVTFPFGGWNAAKEBSEEDERKQNIYKPSRFPADQKMP PMQSNERRPSSLVITETKPLAKGSEKKKYSNLELKKELKQI QSEBDERHKTQKRLSEFPFPQSDSGDQRRSDAPSRNSSCVL DDYAPGSHDVGDPSTT\NFTYLGNI\NPMQNLKCCQCEPGRFGP LASVKIMNPRTDERRARERNCGFVAPMNRDAERALKNI.NKMI MSFEMKLGWGKAVPIPPHYIYIPSMMEHTLPPPSGLPFAAQ RERLKNPNAPMLPPKNKEDFKTLSQAIVKVIPTERNLLALI HRMIEFVVRGPMFEMIMIREINNMPRFLFENQTPAHVYYRW KLYSILQGDSPTKMRTEDFRNPKNGSFWRPFLNPLYHMSSEQ BTEAFVEEPSKKGALKERQDRKLEILRLGLTPRNDIGDAMVFC LNNARAAEIVDCITESTLSILKTLPLPKIARLYLSDVLYNSA KVNASRYRFFETKLOQIFSLNATRYTIGQLHSENPFQKRV TCFRAMEWAIYPRPFLKQNIPLGLVNTLBEKTEEDVDDLDG GAPIEEELDQAPLEDVGPIDATPIDDLGVFISKSDDDLDGV PIDATDSKKNPIFKVAPSKVAVDESELAQAQVTSKKELTD QHEESEENQQRSESDERDQSSKSEEHLYSNPIKEWTE SKFSKYSMSSEKRAKLEIRELKVMPQDLEGGKRPKPKQGSF QBOVHYHDKLLQREKKELEERRERDKDKREKLSRSDKKKEK DECTPTRKERKHSTSPFSKSSGSRKRVSPSPKSESRSESR SHKSSRSRSHKSDPRDVS KIGAKSPSGSRTPKRSRSESRSP KKSQKRSQSGSPHRSHKKSQKKTGTGRKFPKAVTYWKDCLF LCPSRVF
5934	1	3190	QTRKLKADKTPGSSQKASSKTRSDVHSSGSDAHMDASGPSD SDMPSRTRPKSPRKHNYRNESARESLCDSPHQNLSPLEENKLLK AFSICGMSIAKRTLSKKQBELEKKKEDEKAJAEIYEEFLAAFG SDGKIKVTFPFGGWNAAKEBSEEDERKQNIYKPSRFPADQKMP PMQSNERRPSSLVITETKPLAKGSEKKKYSNLELKKELKQI QSEBDERHKTQKRLSEFPFPQSDSGDQRRSDAPSRNSSCVL DDYAPGSHDVGDPSTT\NFTYLGNI\NPMQNLKCCQCEPGRFGP LASVKIMNPRTDERRARERNCGFVAPMNRDAERALKNI.NKMI MSFEMKLGWGKAVPIPPHYIYIPSMMEHTLPPPSGLPFAAQ RERLKNPNAPMLPPKNKEDFKTLSQAIVKVIPTERNLLALI HRMIEFVVRGPMFEMIMIREINNMPRFLFENQTPAHVYYRW KLYSILQGDSPTKMRTEDFRNPKNGSFWRPFLNPLYHMSSEQ BTEAFVEEPSKKGALKERQDRKLEILRLGLTPRNDIGDAMVFC LNNARAAEIVDCITESTLSILKTLPLPKIARLYLSDVLYNSA KVNASRYRFFETKLOQIFSLNATRYTIGQLHSENPFQKRV TCFRAMEWAIYPRPFLKQNIPLGLVNTLBEKTEEDVDDLDG GAPIEEELDQAPLEDVGPIDATPIDDLGVFISKSDDDLDGV

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SBQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Arginine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *Stop Codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
5935	3	4493	<p>PLDTRDSKKNKIFKVPKWEVDESELEKQVTSKWLPD QHFESEEEHNQNEESEDDEDTQSSKEEHLVSNPKKEWTE SKFSKYSEMSEKRAKLREIELKVMKQFDELSGKRPKPKQCSF QEQVEHYRDKLQREKEKELERERERDKKEXKLESRSKKKK DECTPTRKERXRIISTSPSPSRSSSGRRVSPSPKSESRERSE SHKSSRSRSHKDSPRDVKKAKRSPSGSRTPKRSRRSRSRSP KKSGKRSQSRSRSHKSKSGRTGRTGRFFKAVTWNKCLF LCPERSVF</p> <p>SYWLSSWLRSPFPQFWAGWGRIGRTNAPVHGDDCETQASAL SDSGSEVSSRAKRSKSKKGRQELERKQKAGERYRYEVEDF TGVYVEDEBICSLVQARQDDWVDDQIQYVEDGRITFDID LEDDALDADEKKGKARNTKRYVEKLVTPVYVDSKRTFACA GKKTAKAVDLKGLGLGCLLODINTTTPQITPPPMILKKERS IGASPSPFVHTATVPSGKIAPSVSRKEPDLTPVPLKRAEFAG DDVQVESTEEQESGAMFEDGDPDEMEVEVDLEPKAAKAWD KESEPAZEVKQADSGKGTVSYLGSFLDPVSCWDIDQEGSSFS VOEVQVDSHSLPLVKGADDEEQVFHFMWLDAYEDQYNGPVVFLF GKVMIZSAETHVSCCVNKNERTLVFLPNKNKIDINTKETGT FISMKOVYEEFEKIATKYKIMFKSKPVEKHYAFEPIDPVERK EYLEVKYSAMPOLPDLKGETFSHVPTINTSLELELMNRKTK GPCWLEVKKSTALNQPVSWCKVEAMALKFDLVNVIKVSPPPLV VWAFSKKTMQAKHKNQIIAMALVHSFALDKAARPKPPQSH FCVWSKPDIPFPAKEVLEKRVVJVALTERTLGFFFLAKV HKIDPDIIVGHHIYVGEVFLQLRINVCAPHSKIRLKSNN PLGSGSGFGERNATCGMICDVEISAKELIRCKSVLSSELVQ ILKTERVVIPIENIGNMYSESSQLVLIHETWKDAKFTLQIMC ELNVPLALQITINAGINMSRTLMGGRSERNELLLHAFYENNY IVPDQKIFRPKQOQLGDEDEIDGDTNKKYKGRKKGAYAGGLVL DPKVGFDYDFILLDFNSLYPSIIQENICFTTVGVASEAKV TEDGEOBQIPELPDPSLEMLIPREIRKLIVERKKGVQLMKRQD INPDLILQYDIRQALKLTCANSYVGLGFSYRFPYAKPLAALVT YKGRILMHTKM/QKMMLEVIYGDTSININTNSTNLEEVFKL GKHYSEVNTVYKLEIDIDGVFKLSLLKKKKYALAVVEPTSD GHVYTKQKAGLDIVRDWDLAKDGNVFGQLSDQSRDTTV ENIQKLEIEIGENVLKSSEVYSGFEINAKLTQDPQVFPKSLP HVHVLWINSQGGKVKAGDVTSVVICDSNLTASQRAYAPQ LQKQNDILTDIYQVIAQIHPVARICEPIDGDAVLIAITGWEL LDPTOFKVVHHYKDKNDALGGLQKLTDESKYRDCERFKPCPC TCGTENIYDVFDSGDTMEPLVRCSDNCKASPLTTFVQLSN KLIMDIRRPIKKYDGLWICEPTCNRNTRHLPLQPSRTGLPC ACNKATLQPEYSKSLYTLQCFYRIYFPAECALEKLTIDHEKKD LKQFFTPKVLQDYRKLNTRAQFSLRSYSEVNLKLPAGCAV KS</p>
5936	1124	139	<p>RGEQPDASFRKPAFLGGERLQESRLRAVHRSRANTCYLAI RMLMATCCSPITACTGFWQKRAPPLRLVQKREHDSGSLAFAS NSIQKRRKKGLLPAFLRTPFPPLISLQCPQVSSVVIDVLL PEIIRVRLHKKSSDPPIPIYIDGWSVPAQGLLSEVTFPI SLVPGGLAESTGLLAWSDELLWNGIIVAGKTLNQVDMWVN SHNLIIVTVKPNCRNNVVGASGRLTGPPSAGGPAEPDSDD SSDLVLENRPSPSSNGLSCGPPCWDHLPGRINDGTASSIPLSD QEQASSGWSRIRGDGSGFSL</p>
5937	31	1600	<p>PTSLKSTVQIMCRLQDKRYQCVYSLAEIFKPLASTPYIVLVL YGLTSSYSLWMLRSSLKQYSEALREKSNYSIDVDKNDPAPI LHLADQYDPLYSKRPISIFLSEVSENKQINLNEWTVEKLSK LVNKAQDKIELMLMANGLPDNPVRLTEMEVLSLELPEVKLPS AVSQILNKLRLVYHSSSLVVDHPALFALEENLKILRLKFTMCK IPRNVEHLNKLKELYSGCVLPQSLTMQLGPDOLNRLTYL KSLSRIPQVITDPLSLQKLSLDMKSKIVVNLNKLKNNVLS LELISCLERIPASTFANLHLELALREMLKVFETISFHLQ NLSCLENNMIATIPACALASNLQGLSDHNNLEMLGL CTKLHYLDLSYHNLTFIPEEIQYLQNLQYFATNNIEMKED</p>

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to last amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, * =Stop Codon, / =possible nucleotide deletion, \ =possible nucleotide insertion)
			<p>TFNLIGRSTIRCTSDPHNGVWSSPAKRCFLSVKRGHCKTPEQF PFASPTTIPINDFEFPVGTSLNYECRPGVFGKMFISICLENLWVS SVEDNCRRKSCGPPPEPFNGMWHINTDTCPGSTVNYSCNEGRL IGSPSTTCLVSGNNVTWKKAPICETISCEPPPTISNGDFYSNN RTSFHNGTIVTYQCHTGPDGBQLFELVAGERSYCTSKDDQGVW SSPPPRCISTNKCTAPEVENAIRVGNRSFSLTSLIRPKCPQG FVMVGSIHVQCINGRWGPKLPHCSRVQCPPEPBLHGERTLSHQ INFSPOGEVFTSCPEFYDLRGAASLHCTPQGDWSPAPRCTVKS CDDPLQOLPGRVILLPLMLQLAARVSVFCDGRFLKGRSASHCV LQMKALANSSVPVCGQPCPMPIALNGSTUTLKDIPYKKE VSYTCDPHPDGRTFNLIGESTIKRTSEPHNGVWSSPAKRCFL FUGAACHPPKPIQNGHYIGGVSLYLPQMTISYCTDGYLVKPK GFICTDQGIWQLDHYCKEWNCSFPLFMNGISKELEMKKVVHY GDYVTLKCEGDYTLGSPNSQOQADRDWDFLAKCTSRTHDALI VGLTSGTIFPILLIIFLSWILKRRKGNNAENPKVAITHLSQ GGSSVHPRTLQTNENSKVLP</p>
5942	4509	598	<p>YLYVRMANFLAYGISKAYQIDFPLRKIRISQLVIEVGRKL DKQAMIRFBERTGYFSSDTLQRTASHYVIKMTISTFNEFLDA HKTGGDI FAIVSKAEFPDQIKVRESEBELDTLNLNFCELSTPG OVENSYGINLLQTYINRGEMDSFSLISGAXVAQNAARIVRA LEPEALRKNPFWTYLLNLNLKADIKRLMGNASPLRQFSILPFP MLTLEBKKTIVTKLMDKREDEIGHLHVNGLGVKGVQGLP SVWMEAFQPTITRTVLEWLTSLYADPTWDDQVQVTSVPMUV EDPTINDHIHYSEYFLAKKQVYSKRAQLVTPITFEPLPSQYY IRAVSDRMGLAEAVCIINFGHJLPERHPHTELLDLQPLPITA LGCKAYBALYNPSHPNPVQTOIFHTLYHTDNCVLLGAPTGSCKT VAELALFRVFNKYPTSKAVYIAPLEALVRERMDKVRIEERL GKKVIELTGDVTPMKGAKADLVITPEKMGDVSRSWQNRNVY QQVTILIIDEHLLGEKRGVLEIVSRNTPISSHTKKPRVIVG LSTALANARDLADWLNTKQMLFNFRPSVRPVLEVHIGQFPQG HYCFRNASMMPKAPQAIRSHSPAKPVLIVSSRRQRLTALELI AFLATEEDPKWLMGRKSKENHIAIVRDSNLKLTAFQIGMH ACHLERDKTVELFVCKKVOVLIATSLNACWPPHAGVILIKG CEYVDGKTRRYVDPPI TDVQLQMGKAGRPQEPDQKAVIYHDI KDFYKFLYFEPFVSSSLGLVLSHNLNARZAGTITTSQXALD YITWTYFRRLINMPSYVNLGDVSHDSVNIKPLSHLIEKSLIE LSYCIETIGENDKSIPLTYGRIASYYLKHQTVMPFKDLKPEC STREELSLSDAEYTDLPVRHNSDMNSELAKLPESNPHSF DSPHTKAHLLOAHLRAMLPCPDYDTDTKTVIQAALRVQAML DVANQGWLVTVLINTNLQMVIGRWLCKSSLLTLPENTENHL HLFKRWKPKIMKSPHARGTSIECLPELIHACGKDHVFSMSVES ELHAAKTKQAMNFLSHLPEINVGISVKGSDWDLVGINELSVST LTADSKDNKWLKADQYEVLVQSLQVHFPHGKPGKESCAVT PRFPGSKDBWFLILGEVDKRELIARGVYIRNHVAGLSFTT PHIPGRYITTYLFNSDCYLGLDQQD/ NLSQRTSESFCUJQHQ GL</p>
5943	1	2274	<p>DKPTRHKTYLSSWAKMAAAEPVGGDEGLWTFNLIVFVRLR RGLKNQSPTRARKPASSLPSSPPQLTRVVPGLGGELPLMD GEDSSFLVVRGRGSPGGQEBEPALSOYRQLLCINPPLPIYQVL LSPTQHHVALIGIKIMVLEIKPRGNKSEFEGGCTVMCSSTTP VAERFFTSTSLTKIAANYPSELIDPHVILLTSDNVIRIYSLR EPQTPNVIIISSEAESLVLNKGRIASLGETAFAVDFGFLA AVPKTLFGQNGKDEVAYPLIYLYENGETFLTYISLHSPGN/I NKAVGSIAHASAARDHYGYDCAVCLCPQVNLIVATISGML YHCVVLGREGDEDDHSEKSDSRIDLIPSLYVPEVELELAKL ASQEDDPFSDPCFVRLKRDKPCSRYHCHAEAGVHSVGITWI IKLHKLQSDDEKODSLQGLSTBKQKCVHILCTKPLPCRCGAP TRQPIVTVILGPTWICITSTYELCIIWLSLTPHSPALCLCT EDVEVAESPLRVIASTPDSPEKIHSLGORSVANAPLASKED IAPPPERCQLLSRATOVREQVYIKDLAKERTGRVLLCDQ KKKQLEDLSYCREEKSLREMAERLADYKREARKEQDIDNRNK</p>

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PCT/US00/34263

SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop Codon, /possible nucleotide deletion, \possible nucleotide insertion)
5944	167	3428	KLHSHFHSSELPLVLSERDMKKQLLPDQLRHGNATKQVTMR KDYQQQKMEKVLSPKPTIILSAVQRKCIQSILKEGHEIRSMV KQINDIRNHVNF FSIATFTDEPVLTEPPSATTTTTIGISATMTLAGSHGKRNNIT ITTSSKRNKRNKILPENVOIIFDDPLPISVSQPEKVNAGESXS SSTSESGSDNNMRISSCDSSESNNSNRKSDNHSFAVVTTVVS KQPSVLVTFPKERKSVSGKASIKLSTISBGTNSLSLSTCTKS QPSPLSSPMKGLTVASPKRGQKREGWKEVVRSKKVSVPSTVI SRVIGGGCNINAIREFPTGAHIDIDKQDKKTGDRITITRGOTES TRQATQLINLALIKDPKDEIDELPKNRLKSSSAMSRIKGSAPIT TANTSLMGIKMTVVALSTSGIATALTVPASSASTHTIKNPN VMNVRPGPVSFPLATYPPQPHALLAQTQQRIRPELIMT HFGGTGFPACSTWGPFFVLPLSPARATNSPKPMVMPRHSNONS GQVNSAGSLTSSPTTTSSASTVPGTSTNGSPSSPSVRRLQF TVVTKTSNATTTTITASNINAPTATNATYMPMTAKEHVPSSP SSPSPPAQPGVSRNSPLDCGSAPNKVASSEQAGSEFVVT TNRTPNNSSSSSGSSSAHNSQQQPGSVSGEPRPPLQQSQVPPP EVRMTVPPLATSSAPVAVPSTAPVTYMPDQTMGCPQPTPKMET PAIRPFPHGTTPAPHCNASVQNSVAVLSVNHIKRPHSPSSVQ LPSTLTSQACQNSVHPANKPIAPNFSAPLPFGFPSTLFENSEPT SAHAFMGSSVSSQSTPESNLSGKSSYLPSNDFLHQSDTSKAGP FRPLKAPAEPSGIVNMLSPYGSVTPSSSTHLOWFASISGGQM YGGGAPLGGAPAAANVPMQHSPLLSLLTCCSSANOSAGVSS GVRAPSPASSVPLGSEKPSNVSQDRKVPVPGITERSARACG GTSAPSIVGNSLSTSVGHSGIWSFGIIGNQDQKVDWCPNPMWPH IHRPMSPDGVPSQCHAMERDSTGIVTPSGTFHQHVAGYDMPK VGMPFSVYGNAMIPPVAPIPDGAGGPIFNGHPADPSWNISLIX MVSSSTENNGPQTWNTGPPAHPMNSVHNRQLG GVTHLPLPKRRKLNGIAEDLKGQADFFVFLVSEAVATGSPRA WLTCILPLPGIIFSVLPKANSRPLLIITFPATPDSDLWDQDQ QPQPEKPESTLGGAAARAFYEALIGDESSAPDSQRSOTEPARER KKKRRIMKAPAAEAVAGASGRHGQGRSLEADKHTHILRAA QGQSLPEGRRLLEPHEGAGGAGHINARDAFWFTPLMCAARAGQG AAVSYLLRGAANVYVCELSGDAQLSEAGGFVAVHVRSH GQTRSPENRSPTSLQYCEMCTHPEQDSNHTSIAILLISQCP QPNNLPLGVPISSPGFKLLRGGWEPQKGLRGEGRANDIPTV LKRDQEGLVYRSPQPRVTHFPANDTRAVAGREYTPPRVATLSW REERHREEIKDRAWERDLRTYMNLEP
5945	1461	197	ILGYSYSIQPEEYS(BWVC)EVVLQDILLYVSPKHSYLRDLP SEGSPQRVNSIDFV(EL)BHLQPDVLHVLVVDV/TILTEAV YSRGQKQKVMILVQEQDQHYALVLNPGGAAN/YPQLQRYKK YIWEFKYLVQCNTYLENLEHTTPHSSCECLFDDDIRAITFKA KFQKSAPSFKVISDLATHLEDKCSGVLLIKAQISELAPITIASQ KAIANHSHSLKSIFSSLPINIVYTGCAKQGLELTDENAIYKQCF SCLPFTMKYIYRPAIMTADIGRIDVCIRESKLEIKILNLISA DCLARIYVTPSITTYGHWADLIFSLILVASFPCVLKIQLSFLVLDNSYPLQDPSILDPYDPIVKGHAAAL
5946	541	1666	RGIPDRRARGPGLVIMDLINKVEKGLGHEGQAAPLCKCKK CGEPHFHWRKICRNCNVAKKSM/TVLLSNEEDRKVGLFZDT KYTTLIAKLKSDGIPMYKRNWMLTNPAVKAKQVNSINTVITYHA PPVQNGALRQYMQMLPKKEQPVAGSEGAQYKKQAKQLPAHD QDPKCHRLFSPREVKRMEQFVKYKSEALGVGDVKLPCEMDAQ PQKQNIPOGRSTPAAGVAMEDKSAHKTQYSYCYCKLSMKES DPAIYAEARAGYDKLMIPACFVCSHCHLVDMYIYFNKNELKYG RHYCDSEKPRCAGCDELI FSNHYTOAENQWHLKHSCFCDCSI LAGEIYVMVNDKPVCKPYKVNHRVVCQGCNAILDESVORVTYN NFSWIIASTECFLCSCCSKCLIQKQFVPPBGMVFSVCBCKKRS
5947	3	1317	YHRYVSGSGLVLSALBVCWDFLGLTGESLPLPGFPGSDI QGKQWQRKGRCHSSARHPSSPSCVSGHSPTRETLTYAQAQM VETELDKHLIRISITPELLEILDDLTAGQMSNKNKNSERP PVCLRTXHKHNNRVKKKQNEALPSARQTPASASALPEFKVRIEY
5948	39	3370	

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5949	39	3370	<p>SPPSAPRRPPVYKFLKSAEELNVEYDMDEEDYAMLEIVNE KRKGDVPAVSQSMFEFLMDRFKESHCHCNQKQGEQSLIDEDA VCCICMDGECQNSNVILFCDMCNLAHVQECYGVPIPEGQWLC/ RAHCLQSRARADCVLCPNKGGAFFKIDDDRNHGV\VCALM\IP E\VGFAVTVFISPIDGVNIPPARWKL\CNLCCKEGR/VGACI QCHKANCYTAHVTCQAQAGLYMKMEPVKELTGGGTTFSVRKTA YCDVHTPPGCTRRPLNIYGDVEMINGVCRKESSVKTVRSTSKVR KKAKKAKKALAEPCAVLPTVCAPYIPQRLNRINQVAICRKKQ FVBRAS\YWLKRLSRNGAPLRLRLQSSLOQSSQRENDDEM KAAEKELKYQRLRDLERARLLIELLKKREKLKREQVKEQVA MELRLPLTFLVLRSLDQDKDPAIFIAPQVSLKEVFDYLDHI KHPMDPATMRKLEAQGYKNHIEFEEDFDLIIDNCKMYNARDV FYRAAVRLRQGGVVLQARREVDSEGLEEASGMHLPERFAAP RRPFSWEDVRLDLPANRAHLGLRLELDMLDLTCAMKSSG SRSKRAKLLKKEIALLRNKLQQHSSQLPQPGLESGFEDGAL GPEAGEEVLPRLETLQPRKRSRSTCGDSEVESESGKRLDAGL TNGFGGARSQEPGGGLQKATPRRCASESSISSESSPLCDS FNAPKQGRKPAIVRRHTLEDRSELISCIENGNYAKAARIAEV QSSSWHISTDAASVLEPKVWAKCSGTPYPALIIDPKMVR PGHNGVTIPAPFDVLKIGEHQTKSDKELFLVFFDNKRSQ WLPKSNWPLGIDETIDKLMMEGNRSIRKAVRIAFDRAHNL SRVHGEPSTLSDID</p>
5950	1166	373	<p>YFRYVPSZSVLRSALEVCMDVLSGLTGSLLTEGFFSGPIDQ GMHYOMERKGRCHGKSAARHPSPCSVGSPRETLTGAQGRH VSEIEBGLRHRISFDPLEILEDDL\AQMSCECHNKNSESP PVCLTRKHQNRVKKHNRALPSAHTPASASALPEPKVRIVVE SPPSAPRRPPVYKFLKSAEELNVEYDMDEEDYAMLEIVNE KRKGDVPAVSQSMFEFLMDRFKESHCHCNQKQGEQSLIDEDA VCCICMDGECQNSNVILFCDMCNLAHVQECYGVPIPEGQWLC/ RAHCLQSRARADCVLCPNKGGAFFKIDDDRNHGV\VCALM\IP E\VGFAVTVFISPIDGVNIPPARWKL\CNLCCKEGR/VGACI QCHKANCYTAHVTCQAQAGLYMKMEPVKELTGGGTTFSVRKTA YCDVHTPPGCTRRPLNIYGDVEMINGVCRKESSVKTVRSTSKVR KKAKKAKKALAEPCAVLPTVCAPYIPQRLNRINQVAICRKKQ FVBRAS\YWLKRLSRNGAPLRLRLQSSLOQSSQRENDDEM KAAEKELKYQRLRDLERARLLIELLKKREKLKREQVKEQVA MELRLPLTFLVLRSLDQDKDPAIFIAPQVSLKEVFDYLDHI KHPMDPATMRKLEAQGYKNHIEFEEDFDLIIDNCKMYNARDV FYRAAVRLRQGGVVLQARREVDSEGLEEASGMHLPERFAAP RRPFSWEDVRLDLPANRAHLGLRLELDMLDLTCAMKSSG SRSKRAKLLKKEIALLRNKLQQHSSQLPQPGLESGFEDGAL GPEAGEEVLPRLETLQPRKRSRSTCGDSEVESESGKRLDAGL TNGFGGARSQEPGGGLQKATPRRCASESSISSESSPLCDS FNAPKQGRKPAIVRRHTLEDRSELISCIENGNYAKAARIAEV QSSSWHISTDAASVLEPKVWAKCSGTPYPALIIDPKMVR PGHNGVTIPAPFDVLKIGEHQTKSDKELFLVFFDNKRSQ WLPKSNWPLGIDETIDKLMMEGNRSIRKAVRIAFDRAHNL SRVHGEPSTLSDID</p>
5951	143	5449	<p>NNVKSLLVQLFKFSDEEHEQNDISGKTGE\GVSEKATRK VEQDSCTVKLSHEDDHILEDAGSSDISDAACNTNNTKNTSLV GLPSCVDEVTECNLELKDITMGIAKTDENTLERIKRIPGLYCRDA BSNRGLSTFENKSNLEVDUTSIFPGPSNILENAILCDVFDQNSK QIMARTRIKESHRANLQDDRDSQSSSVLESLKSVKSHKPK VHSKQWMTTDAPIKIVAAKVTYHESKTVKVESVKSXNDVPES QQNFIRPVKVRKQIDKEPKTQSCNSGVSKVSNQNSVLAKTLL</p>

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			<p>DQTVLQIFKPLTHSLDSDKSHAHFQGLKEPHIAQOTHVSHSSQK QCHKPPQQQAAMKTNHSHVKEEELHDPGVHFKBEDKLKIKPKEN LQPRQRSSKSFELDEPLFIPDNIATIRRGSDHSSSFESKYM WTPSKQCGCFCKPHGNRFVWQGRCDNFWHQDCVGLSLSOAQOM GEEDKEYVVCVCCABEDKKEITLDPDTLENQATVEFHSQKXTME CEKLGSLKHTINDRTKYIDDTVKHKILKRRSGSGRNSDCRD NEIKMQLAPLRKMGQPVLPSSSEKSEKIPKSTVTCTCGEK ASKPGTHEKQSHKKKV\EKGVIANVPAASAKPSADQIRQSVR HSLKDLMKRLTDSNLKVPESKAATKISKELFSFPRDTAK YKKKTSIMFNKDPKNNILPKKVLKGEVTPPHLIRMSPEELAS KELANRRERERHTIEMEKQRYVERAPITATRHQBRTIESD APMKGEAAMEIQPAANKSLKXPSSEK\KREVESSHSCITTS QHRQGLFDLCKICIGRMAPPVDDLSPEKKVYVGVAKHSIDNE AESTADALSSTNIIASEFFEEEEKQSPKSTSPAPRPMQPTV EVESTFLARINFINPKOFINMPSVAKFVKAYVSGSPPEYLITDL PDSIQVGRISPTQWDYVEKIKASGTKEICVRFPTVTEEDQI SVTLIFAYFSRKRKYGVANNKQVDMYILPLGATDKIPIPLV PFDGPGLELHRPNLLGLIIRQLKRRQSHACAS\SHIAETPESA PPIALPDPKKSILEVSTBAPEEENOFFNSFTVLHQQRNKPQQ NLQEDLTAVEPLMEVTKQSPFKPLFLFGLVIGWENOPTLLEL AKRPLVEDILQSLGTTQGVVDQ\AQSWMEQNTVKELPFLNEQ TNSKIKEMVETDGEKIKIVGVNLSISPTDSASITESTVSG SSISNGSLTSLRQKPPVSTBAFLINLSQSQVSTESKE KTLRQGLQEDNNLQDNQTSNNSPCRSNVGKIGITDGVSCEN LVANTARSQFINLKRDPQQAAGRSQPVTTSSKSDGSCRNKEK HMLPGLSHKEHLTEQINVEEKLCSAEZNSCQQSDNLKVAQNS PSVENIQTSQAEQAKFLQEDILMNQIETVHPFRGSAVATSHFE VGNCTSEFPKSIPTTSRSTSPRTSTNTSPMRPQPNLQHLKS SPGPFPPGPNPFPPQSMGFPFPHLOPELLPPPGF\FA\QNF VPWPPV\HLPA\GQPCRMNGPLSQASRYIGQPNFYQVQDCRRPE RRHSDPMGRQDQQLDRPFNRQKODRQRFVSDSHLKRERHEKE WEQSEHRRRRRSQDKDRDRYSRSGHKDKERALSQDRGDT QKASDSNWDYK\DKPKSEDYEDKEREKSHREKQDRDRYH KDRHTDRYTSIS</p>
5952	5226	639	<p>PPAREARELPALSMEARPSGNNALCLRLALVTL\AFELF ASDAQONVILHVPKSLDAEKLGVNLEKCFATANLHSSDDP QILEDGQSVYTTNTIILSSSEKSTPILLNVTENQKKKIFVLEH QTKVLKRRHTEKVLRAKRRWAPIPCSMLENSLGPPFLFQV QSDTAQNYTIYYSIRGPGVDQEPNLFVVERDTGNLYCTRDPDR EQVESFEIIAFATTPDGYTFPLPLPLIKIEDRNDNYPITFEET YTFIPENCRCVOTVQGVCAATDKDEPDMHTKLYSIIQGVPPS PTLPSNHPITGVITTTSSQLDRBLIDKYQLKIKVQMDGQVFL QITSTCIINIDVDNHLPTFTTTSYVTSVEENTVDVLEILRVTE DKLDVNTANWRANYTILKGNENGNFKIVTDKINGVLCVVKPL NVEBKQMLLQIGVWNEAFSSRSASPSRANSTATVTVNVEDQDE GRCNPFITQVWNRKARVOTSSNGKAPDTRSSSRTATYIKKL TDPTCWMTIDENQOSIKRVFSLDRBAETINITYITVSSADGC CHGTCTGLIQLQVDNNSFPKPKTVIICKETMSSAEIVADP DEPHHGPPDFSLSSSTSRVQRMRLKAINDTAARLSYQNDPFP GSYVVPITVDRILGSSSVTSLDVLDCITRNDCTHRVDRIGG GGVQLQKWAIIALLGIALFFCILFTVCGASGTSQKPKVTPDD LAQCNLVNTBAEPGDKVYSANGFTTQTVGASAGVCGTVGNS IKNGQGTIEWVKGHQTSES CRGAGHHHTLSCRSRGTEVDNC RYTYSWHSPQFQPLEGESIRGHTLILN</p>
5953	330	811	<p>PLCNDQGWYMWKQSELSKSSGENDALPKLDLGRSGGQTK LCIGNITNKGASAKPRTAGGGLSLPPPFGKVITPPPS/V LKSTNVHTPPSPKRSNHGSDADILLDDSPAPVTPPATPVPS VSNLDKSDFTASSGVNCAQPSNHWV PPSPFKANMADELEVLADVSLKNNKSKATPAARAGKTVL PPPSRQWQYKLAARNEITVDKIFNQKIGFLFPKQCLAKIME AVPQVKFYIESIKEYKLDNEEDRLCRSRQIYDAYIMKELSCSH</p>
5954	32	2130	

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			PFSEQAVHVSOSLSKKQVISTLPQPYTETCTESLRGDIQKPM ESDKFTRFCQWKNVNLINLTQNEFSVIRIIGRG3PGFVYGCCK ADTKMYAMKCLNKKRIKMKQGETLALNERIMLSLVSTGDCFFI VCNTYAFITPDKLCFILDMMGGDLHYHLSQHOVFSSEKRRFYA TEILGLEHMHNRFPVYRDLKFNILDEHGHARIS\DLGLACD FSKKFPHASVGTGMYAPVFLQKGTAYDSSADWFLGCMFLPLL RGHSPFRGHKTOKGHSIDRMILTVNVSLEDTFSLKSLLEGILL QRDVSRLKGCGGSGSVEKHEHSPFGVDWGHVLYQKYPPLIPP KGVWAAALADIGSFOEDETKITLLDCDGLYKXNFPVLISERN QOEVETTYEAVNADTKIENKRAIKQLGHEHDLKGCIN HGYMLKLGNPFLTQWQRYFYLPNRLKNGKGESEKQLLTNEQ ILSVEETQIKDKCILFRIKGGQGVFLQCESDPEFVCKKEELNE TFEAGRLIRRAKPLNKRSPSTVRLPSPSLCHRNNGI
5955	1726	444	KEREFRILAVCFIAYFSAYESSFTETLEFCGLCRSGQFACRR PANRQDVLGSINLVLQITKDPKTPGRILDHGTATFIIHREBQ VNRKGINIWDVGLFGLNLEIANSREEVFWKYSAGWALALCR WASSLSHGSLEPHLSLRSEDLIAEFAQVTINWSSCCLRVFAHPHT NKFVALLDSDVRVYNASSTIIPVLSKRLGRNVAFLAWKPLSAS VLAVACQSCILITWLDPTLSLRPSGGCAVLGSHGHTPVTLA WASPGGRLLSAPVDAAIRVMDVSTETCPVLPFMRGGGVINLML SPDSKLIANTPSAVFRWDAQMTYCEKNTFLGRCCQTCMSPP GSRLLPTVGLPDLVLSLPEFCCEGKAALSVQSQRLWICL ROQYHOMVERGLGERLTQWSTQVGVWGLCL
5956	1705	139	GVGVGRGARANITVGEKAAALNLSLHSHAFHFPFSGVAQKPFCA TYWSSIINTLQTVGVKRRHRLKRENDPCFVGEADVIVPSHL IQNKYFGVDVIDFRAKVVVRVCOALMDYKVFVAEPTKVGKDKKPT FEDSSCSLYRFTTIPNQDSQLGKENKLYSPARYADALFKSSDIR SASLELDWENLSLKPAHSPHVNTSATLSQVINEVNGEETIGRL LQLVDLPDLSLLKQQAEPVKIPQPKRQSTMVNSNLYDLGLK AYSDSQDEWLSAAIDCSRYLQDMVVEISREFFQPPQDRTDLYK ELLFDAIGRYSSREPLNHLSDVHNGIARLAVNGKTEIALEAT QLLLKLLDPQNEEFERILYFMAVAPNPEFKLQESDNRNMVVK RPSALVDMKMLSKGKTLMLVFLWDCHEKFKLPGLTLHKI VS\WKLMALNGRDPNRADAGVYQIDQREYSMTETCTDE LNLKLTLEDSKLSAKKKKLLGQPYKCHDIPITSHPD
5957	1475	451	ELQVAVAMDPLDRVVKPKTKRFXFLEREKPEKLNENTKMLIK GGNANATVTKVLKDLVYALKKPYGVLYKKKNITRPPEDQTSLEFF SKKSDCSLFPQSHNKKRPNLVIIRNMDYHVLDMIELGIENFV SLKDTKNSKCPRGTKPMLIFAGDDFDVTEYRLKSLIIDFPRG PTVSNIRLAGLEVILFALNGKIYFBSYKLLKKSQCRTPRTE LEBMGPSLLDLVLRTHLASDDLYKLSMKMPKALKPKKKKINSHD TPGITYGRIMCKQDLKSLQTRKM\KGLKRPABRITDEHKIS KKIKKKIMELSQPLFHCVLKRIIIGQSISQSL
5958	1	3138	AAALGMLNFPACQAPNLDVEKLTYYSGPGKSTFGYAVDFHID AKTASVLYGAPKANTISOPDIVSGAVYFCPPMABGSAQCGRIFP VITNNKIRVWKEPFLKFKSNGPGLATVKAHKGSKSGSNVAP LLPTMKNFLKPTPEKSGVGTCTYALQHSYASAFSGCSNADP EQQYQYQMGPSLDFYKNGDLIVGGSGFYNGQGVITASVADI IAYSPKILRKTAGRKQTRVAPASYDDSYLGYSAAGEFTGDSQQ ELVAGIPRGAQNGFYVSIINSYDMITFIONFYGSOMASYFGTVV VSDVNSDGLDDVLVGAFLFMEREFPENPREVGQIYLYLQVSSLL FRDPOILTGTETPGRFGSAMHLGIANQDGYNDIAGVPAKGD QRGKVLINYNGKDGKNTKPPKFCQGVWASHAVPFGFGPTLRGD SDIDKNDYDPLVGAFTGKVAVYARPVVTVDAQLLHPIIN LENKTCQVPDSMTSAAFPSLEVCASTVQCSIANITVLAEBVQLD SLRQKGAIKRTLFLDNHQAHRVFPILVTRKQSKSQCDQDFIVYLED ETFRKULSPINISNTSLDSETFKEGLEVPKILNLYENRIVSE QAHILVDCEDMKLPVOLDKLSAPRQKQVIGSEKMLLIDNR NSGEGAYEABLVKIPREANDYGTERRNIGFSLCTYVMDVT RMV\CDLGNPMVSGTNYSLGLKFAVPLREKTNWISINDQIRSS NKNPDENFVSLQIMI\VAQVQIEIRGVSHPPQIVLPHNWEPE

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			EPHKREEVGPLVEHIVELHINIGFTISDTTILEVGNPFSSARDFLLYIFHIQTILGPLCCOPNPINPDQIKPAASFETIPELSAFLNNS TIPHVREKRDVHVVFHRQSPAKILNINCINCLQISCAVGRLEG GESAVLKVSRSLWAHTFLQRKNDPYALASLVSEVFKMKPYTDQPAKLPGSIAIKTSVIWATPNVFSIPLAVIILAII LGLLVAIIL TLALWCKGFFDRARPPQECMDTRDRLTNDKTEPA
5959	1	1166	GTSYAAQQQLPSLLKREBPHLGTINKVFAQWLNHRQVVCGRCTC NLFWVWVTGTSQITKPI LKDRRPGGVTCQCGGHAIELNPSKRI LLAGTGDGMPISLAIVELTTLFPCVGDGSGHMKFTAMISDTM AVSGSRDGSMLWEVIDVLTYSKSDARHNSVSPVPAHITKRAK DIPKEDTNPNCKVRLAPNINIKELQAVSLDGVFHLKAENTL SKLLSTKLPCYRENVCLAYGSEWSVYAVGSAHVSLDPDRQSPSY NVKSVCSRRGSGSIRSVSYFHHITVGTGGQGLLFYDIRAQRLF KERLSACYGSKPLAGENLKLTTG/KGLNHDHTWNYTSDIDFP PPNNAVTHCYDSSGTLFVAGGPLPSGLHNYAGLMS
5960	2853	870	FVMSDGFRRERGPVAGAGAAHLSDFPAMTPTATNRNINLNKE LDWASINGFCQRIENEDPEGPPLATRLNARKIQSPQWEAIQALT VLETCMSGCRPHDEVGKPRFLNELIKVVS KYLOSRTSEKVK NKILBELLYSVGLPSEVKIAEAYQMLKKQGVIVKSDPLKPDGT TPLPFPFPKPNVIFEDDESKKGLARLLES SHPDLAANKLKE MVQEDQKMEKESKRVNLTSEVNNVKKLLJEMVNSHSGGGAGAG SSEDLMKEIAIYQRCRMRPTLPTFGVDTENDDALEALIELL NDNLTQVINLYQKLVGSEVMDATAGSIPGSTALDLDELSDL PPAGTTVPAMPTRPGQASPEQPSASVSLDDLMGLSDPTP PPSGLDGTGWNPSQSSDATEPPAPALACAPSMESEFPQATSLP ASSGLDDLLDGLKTLQGLPPESQVWRNEKQPTPLRLTLRDQ NKSSSCSSPSSATSLLHTVSPFPFRPPQVPTPLSLASTVPLES IKPSNLPVTVYDQGHRLPHFARDPLGRSDVLVVVSM LSTAPQPIRNVFQSAVKVMKVLQPPSGTELPAPNIVHPSA ITQVLLANPQKEKVELRYKLTFITMGDQTYNMGDVQFPFPFET WSSL
5961	198	3147	SGEPRFPNNATCGEYTEDPKVGNLLGSGSPAGVYRAESIST GLRVAIKMDIKAMVYACMGVQVGNVTHICQLPSSILEVYVY PDSNTVVLVLECHMGEMIRVLYNRYKPPSENEARHPHQIIT GMLYHSHGILHRDLTLLNLLTNNNHLKADPQATOLKMPHFE KHYTLQGTPMYISPEIATRSAGHLESVMSLQCMFYTLTIGRPP FDTDTVKITLNVVLADYEMPTFLSIEAKLILHQLLRNPADRL SLSSVLDDHPPMSRNSSTESKDLGTVEDSIDGHATISTAITASS STSISGLDFDKRLLIGQLPNKHTVFPKNSSTDPSGSGDGNST FYTQGNQETSNMGRVITQDAREPHSRYLRRAYSDRSGTNS SOSQAKTYIMERCHSAEMLSVS KSGSGGNNRERSYPTONNANIF NFFKEKTSSSSGSFRKPDNNQALSINHLCPGKIPFPFADPTQIE TVCQWFGMLQINAHKIKTTEYDSISPNRDPQCHPLQKQTSKNA WELKVKMSDASDNMHSVEQNTMKMTALHRSKVEITQGCCTF GSDPLESGKTRKMGEPWQGVNRLRSITSELVAHLKLTROKIKAVVSILDSREVCVELWHTYASQKYKVEVCLISSDGNTITTYI PMNGRGFPLAIDRPPSPDTNISRAYSFDNLPEKYARKYQZAR SFQVLVRSKSPKITTPYTRAKCILMENGPGADFVNVFYDGVKI HKTEDFIQVIEKTGKSYTLKSESVNSLKEETKNTMYDHANRHR ICIALAESISKEERKIRSAFPFFPIIGRKPSTSSPKALSPPS VDSNYPTKASPRNMVMSAASPTQAPILNPSNVINEGLCT TASGTDISNSLKDKCLPKSAQLKSVFVKNVGNATQ/LTSGAVV VQFMDGSQLVQAGVSSISYTSPNGQ/TTT/YGENEKLPTYIEQ KLQCLSSILLMESNPDPNH
5962	20	2447	RVCSSTASTASQAVNADAKKEIRRLADPQRAQFAEATQRLSER NCIEIVNKLQAQKLEVVVHTLDGKEYTTPAQISKMDDELHVG GRNVLDQGVNVLHTRHNRIGDILKSKKHQVGLVGLQCDEN YDLRIABEYNDKLGSSQVTSIKKCTYDLNSTPQALQDGRS RISHGIDLDNRGVITPFAVARIKARIRGLPSATPTFVANSLS KSYGFSQQLLYSVLEKLVNSGRLRGTVVGGROQKAVFPDITS RTQSTVDSFFRONGYLEFDALSRGLTIDAVSYIKKKYKTQILL

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			FLRAACVGGGLVDQVEASVEEATSSGTWVDIAPLLFTSLSVEDA ALLQQWRAPFSQASTVVPSTIVVSEKFINDCITELFRELIMH QKAKKMNWPHLLTREDLKQISTLESVSTSKDKKDERRKA TBGSGMRGGGGGAREYTKIKKKKKKKRDDSDGSGSHTK KKPEISFNFQDEIEDFLAKHQQDAPEEFISLAEVLIKPLNKTY LRFVRSVFMSSTTSASGTGRKRTIKDLQEVSNLYNNIRLFEKG MKFFADDTQAALTKEHLKSVCTIDITNLIENFLASDLMMAVDDPA AITSEIRKKILSKLSEETKVALTKLHNSLNKESIEDFISCLDPA ASACDINVKRGDKKREQLFCHQALAEQLVETDPAIILHLT SVLLFQFSTHMLHAPRCVPIQIAFLNSKIPEDQHALLVYKQG LVVQLVSGSKKTKGGDYPLNNELDKEQEDVASTTRKELQELSS SIKDLVLSRKSSTVEE
5963	62	1130	PKNPQDFPQNGELMOQKQDEIGFPQGGQKQAGPMPLGMSGN GSPGPGTPTGSKSGKEPGIQGMPGASGLKGPATGSPGEPGY MLPGIQGKKGDRNGKGGKIQGGKGGNGRQGIQGGQIQGHG AKGERBKGSGPVGKAGISGKSGSVGGDMSGPGKQPGDPGPQ GPGELGKGRFSRQPIRGVCTIDVIRADQVLLVQSGIRNCDH CLSGHSGGIPGPGPIGPGPGLPIGPGRQVPGI GVRGLKGLPGMMEKSGSGGVPQGGPGPGPGPGPGI FPGDPGLPGKGDHKGKPIQGGSPGICNPCLSFVIARDP RKGPNY
5964	3	2147	SCRTGRSLSPLOPREAGSSRGRARSEPPPGMRSEACOVOTTK RGDPHELRNIFLQYASTEDVGERYMTPEDFVQRYLGLNDPHSN PKIVQLLAGVADOTDKGLISYQEFASFVLCAPDSMPFVAFGL FDKSGNGEVTPENVKEIFGQTIHHHIFPNWDCERFIRLHFGHNR KXHLNHYTEFTQFLQELQLEHARQAFALKDKSKSGMISGLDFDI MVTIRSHMLTPFVEENLVSAAGGSIHQVSFSYNAFNLSLNNM ELVRKIYSTLAGTRKDAEVTKEEFAQSAIRYQATPLEIDILYQ LADINASGRILADIERIAPLASEGALPVLNABEQQQSGPLGR PWLQIABSAIYPTLQSVAGAVGTATVPTIDLVTKRMONGRSGG SVQZQENLYKNSPDCPFKVLRYSGPFIHRLPLQIYVABEAL KLTYNDVFRKFTREDSVPLAEVLAGGCAKQSGVITFNPLEI VKIRLQVAGETITTPRVSALNVLRLDLGFLGYLXAKACPLRDIP FSAIYFPVYAHCKILLADENGHVOGILNLLAAGANAGVPAASLV TPADVIKTRLQVAAAGQTTYSVGVIDCFRKILARESGPAFWK TAARVFRSSPQGVTLVITYELLQRCGYIDFGGLKPGASEPTPK SRIADLPANPNDHIGYRLATATFQIENKFLNLPKFKSPSVA VVQPKAAVAATQ
5965	1	1498	MVTLVFLFPLTNNAAKRLSLPLPDLRLQVHARLQKCFELSG CGSYCGAKASPLPGMMAMGLMCGRELLRLQLSGRVRHVSAGP SQNLGKPLLTRELFPAAPOCCORPHYLFLAASSPSRLSISASFA EVQVQAPFPVVAATSPSTAVEPVSAGETADVQVTAREQSFABIGL GSYTPGLIQNLEFWMHVDGLPWWGALAACTVFARCLIFPLIV TQGRZARHINHLPEIQKFSIRIRAKLAGDITRYTASSEMAL YQKHQIKLYKPLILVTPQAPITFSEILARSENANVPSLQ GLWWFOOLTVSDPIYILPLAVTATWMAVLEGAETGVCSLSQ MRNVIRMMPLITLPTIMEFPITAVFMVLSNLSPLVQVSLRIP AVRTVLKIPORVHLDLKLVPREGFLIESFKKGAKNAEMTQRLRE REQRMKNQLELVARGPLRQTFTHNPILQPGKKNENIPGSSSSS SSPKSKYIWDHDTLG
5966	102	1925	RSKQVMARLTKRRQADTKAIQHLMAAETIRNQRQIANIDRTTK YMSRVHGMHPKETTRELQSLAVKDLIVETLITGCKGSKAGIEQB GYWLPGDEIDWETENHDVCFECHLEGEVLICDLFRVYHSEKCL SDEFRLDSSSPWOCPCVRSIKKIGNTNQEGMTYLRFRVSRMKE RAIDINKKGIDNKHMYRRLVHSAVDVPTIQEKVNEGKYSRYSE FKADQLLLHNTVIFYGADSEQADIRMYLKDITCHELDELQCLC KNCPLYANARPDNWCYPCIPNHLDEWAGNKGFWPAKVMQKE DNQVDVFPGHGKAWIPSENQDITVINIRHLHVKSRSKWKKA CDELLEHQVRLREKFPKSKNREDEEELSSISTYNGSNT QBPRAKGRRNOSVPEKKKEPEPEPEPEPEPEPEPEPEPEPEPE SVSTOTKGLSASSPMLRLRSIQTTNDGVCQSMCHDKYKIPNDP

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5967	102	1925	KDRMKS DHKRETERVVRVREALEKLSMBEERQAVNKAVANMQG EMDRKCKQVKECKKEEFVSEIKKLATQHKQLISCTKKKQCYNC ESEAMTHCCWNTSYCSIKCOQEHWAHAEHKTRCRKR RSQVVARLTKRQADTKAQHNAATEIIRNQRQTANTIRITK YMSRVGHMHPKETTQRLSLAVKDLIVETLVCGKSGKAGIEQE GHWLPDSELDWSTENHDWYCFCHLGEVLICDLQFRVYHSKCL SDERLADSSSPWQPCVCSIKKKNTNKQEMGTYLRFIVSRNKE RAIDLANRQKDKMUMTARIVESAIVDVTIQKVNEGATKSYSE PKADAQLLHHTVTVFYGADSEQADARVILKDTCHLDELQCLC KNCFYANARPDNFCYPCIPNHELDAKHGQFPAKVMQKE DNQVDVRFQGHGHRAPISSENIQDITVNIHLHVRSRMOVKA CDELEHQRFLRGRFWKSKNEDRGESEASSISTSTNQLKVT QEPRAKQGRNRQSVPEKKEEPEPETEAIVSSSQRTPIKFPQIEKV SVSTQTKKLSASSPMLHRSTQTTNDGVCQSNCHDKYTKTFNDF KDRMKS DHKRETERVVRVREALEKLSMBEERQAVNKAVANMQG EMDRKCKQVKECKKEEFVSEIKKLATQHKQLISCTKKKQCYNC ESEAMTHCCWNTSYCSIKCOQEHWAHAEHKTRCRKR
5968	81	1288	VFPVREGGAPPTVLTGKQGVFVFGPQFGSSEPTIRARGQPHFP RFPVSSSSAQGVQVPMAMRRRLALGIGFCLACTSLSLVNVYL EMWLPVS VYTYLCELEFIMHLYKREKFLQVPMVMSQYQPKL LEHRPTQLTLPLWPLADVSEETFNELGLIQPLNLTITGVTV FVGN/HFLESAEAEFPMRGVRYHYVITPTNPAVFPVPLQDRL LSSIPIQGHSHWEETSMRRNETISQAKRA:REVYVFLDLVD MVPRNFVGPETLGDVLAIHPSYVAVPQQPPTERRRVSTAFVA DSGDFYGGAVFGQVAVYFTRGCHMAILADKANTMAAMR EESHNLRFSLNKP SRVLSPRYLWDRKQPPSLKILRPFSLDK DISCLSE
5969	1126	503	DVGPNITKRRKCLDVLFLSKPRKPSGRDRAPERQRIIAANKCLC TGVRGEPPS/ITSQKVKAGRDPTYLI VLVGISITGGFLYTI FKELPSSSSPSKIYGRALEKCRSHPEVIGVGSVSGYGEVTRR GRJRVRFTPEVHDLKHTCVKFTYEGSEDSGGGTVYVQKENP SGSEVDPRVLYFEIETVARTILLENRQDD
5970	316	4712	SDQSYGHRLLQKHKWLAQQLKSGQRTDPTLVVYVYDVGMG RNEMELDYAEDATERRRVLEVEKDETEELRQKYVYVDKAKA FALEDLRAIFYCELDCKQYKHQRPDMHINSYDHAHQRLKDLK QREFAKNVSSRSRDEKQKQKALRLEHSLAQKQAECAPOSGP MFKPTTVAVDEEGEDDKDESATNSGTATASCGTASEPSDTKG GPTTAVQITNTTGLAQAGLASQGISFGIKNNLTPLQKLGVSF SFAKAPVKLSEIASVFKDHAEBGTS EDGTPKDESSDQGLQKV GSDGSSNLDGKDEDNDQDGLSLATLSLKLKMKREEGAGATE PEYTHYIPPAHKVKVHPFPFLFMRASEQMDGDNTHPKNAPES KRSSSPKPSCKIAAASQGAETVSEVSEQPKETSMTEPSPGOS KAAKALAGVDGDSLESHQKVSQETQMCRRNSKETSALATPA KESQEPKHTPEFPFVLSKDESLALQVPSLLITFAEPESIS YSCNPLYPDQLRHHDAKTGTETEDPDSKSDHLJSLDQGE PNKSKVGVGKIVSSSGQRMADPAOSACSGMVFQVSGHSGE TETDTRSLPSKKRSRSGSHRHKKKKKHKKSHKHKKHATDEEK SSKABSGEKKKKRKKRKNKNSAPADSRGPKPEPGSGSPA PPRRRRRAQDQSRRLPAEBSGSGKQCGGGSSQGDHQRGRH KGELPPSSQRRAGTKSSRSRSHRSQPSSGDESDASSHRLHQ KSPSQSSEEEEDSGSEHRSRSGRRIISHRSRRSYSSSS DASDQSCYSRQSRYSDDSYSDYSRSHRSKSHSDSDSYAS SKHRSKRHKYSDDSYSLSCQSRSRSHRSTRSRSGRSGRS SCSRSSSRSTRSTANSWQSRSSYSRDRSRSTRSPSRSGSR KGNCHGESVEERHSGRNDPIRKITYRSGPHYRSRGEGEGKK DXGRDDSKATGPPSQNSNIDTGRSGSGDCPEDKNSVAKLL KIKQSRVERKPEVSEVQATPWKQKGLKLPQVFPKLPKPS LGNKVPPLDICKLATKPKNKCHESGLDKRDEKQSETEBEP GSDALPQHPP/SEKTTGTLDDPPEBSKSGHVTADHPVAPLQ PFAHFDCLGDPITISHNYLDDPSDGNITL ESTDSGSGQPVBSL LPTAFDLHEFPSTAPPSGDPSISSTGDRADAELAPLESQPTTF

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			TPPEEKYSKLQAAQGHQQQLLAKQVKAFFASAAALFATPALQPHIQAPATASATSTTVQHAHLQHMAAAAAAIGIHPPHPFQPLAQVHHIDPOHILTPISLSHSTHSIIPGHPATFLASHPIHIIIPA SAIHKGFTPTTTPVHAALYPTLLAFEPFAAAATALMHPHLLHPI FSGQDLQHPPSHGT
5971	53	2149	SFLYFVGVMNDNFIGNWGRFPGDVGOLCS FACVESTILRLNITY PESVTQERRRPKLFATMSGVGDKSSSHMKPKATGSTDSGNRRN RSELFTYTLNGSSVDSQFQSGKNTWYIDEVAEDPAKSLTETSTO FDRSSPFLQPPPVNSLTETNFHSLPFLSKOMPNTNGSIQHSPL SLAQGVMEELNTAPVQSSPPLAMPQNSHGLVGLSGLAEVKENP PFGVIRMIQPPGPIGLNEVLAGELEDECAQ/CTDGT/REGTRAY FTKALKALFVKLSCRPDSRFASLQFVSNQIERCNSLAWEAY LSEVVEENTPTQKMEKGLGLEIMIQ/KICKIQGHVNSCYLDTSLF CLPAFSSVLDVTLRPKENQDVYYSSTQELRLTEIVNPLRIYGY YCATKINKRLKILEKVAASGTFSEEDKEEFFINILFHHILRV EPLKLRASQAKVQDCYFIQIFMKENKRGVPTIQQLLEWSFIN SNLKFAPASCLTIQPSKDFKLEKIFPSELNLNIDLLDET PQCRICQGLLAWYECRECYIDPHIISAGIKIKQCKTCTVQVHLHP KRLNKKYNPVSLPKLPLDWDWRHGGCPQOMELFVLCIETSHY VAFVKYQKIDDSANLFFDGMADRDGGQNGFNTPOVTECPSEVGYL KMSLEDLSLDSRRIQGCARRLLCDAYIVVCTQSPMSLYK
5972	440	1761	ILLAGSPSPEDQCSQSGGDKELVIRGCTSTAVSVFPAATQ EPFREELAYDRMPTLERGRQDPASVAPDAKPSDLQSLKRLPPCF SHKTWVSVLWMSCLLVTSQPSLYLGNVFPAMDYLRCAGGSKI PSAIVSPTVSRNANVIPNFQILPVSTFAVTTTCLWFGCKLVL NPSAININPNLILLLLLELLMAATVIAARSSEEDCKKKGSMS DSANI LDRVPFARVLKSYSVVEVIAGISAVLGGIILALNVDSV SCPHLSVTFPFWILVACFPASALASHVAACNCLVEVLIAISLL TSPLLTASGYLSFTMRIVBMFKDIPPAIKESYDVLILLLLLV LLLQA/QGQGHRIHPVRLAQQCIAAGCILGHPERPAGAPQWGG QQPPPGVQRQGESLESRRGANVPVTRKGNVAAPSLAPGWETH NP
5973	65	2007	NQDGKDLFGHIWANSNGIISNFRSPHAWAEEDPAKSPKTG GRAPPGGAEAGEPTTLLQRLGTISAKVQNKVEGILQDVQKFSO NDKLYLYLQLPSPGGFTGDKSEPSLNSREMYAYWRNHLER HTDTLPKQSVYDAYRYKVCBSLACRPLSTANFGKIREIFPDI KXRLQGRGQSKYCSYQIRTKRLVSMPLPLGLDKGSESFEMGP EVTPADRELVEAACALTCDAERILKRSFSSIVEVARFLQOQH LISARSAHHLVKAMGLABEDHAPEPRSSKFNGLNLEPPGGAH KKFERLAQFPKDLERTGAOPLARGERKKSIVSSAPGANNLQV NALVARLPLILPRAPRSLIPPIPVSPPIPLAPRLSSGALKVATLP LSSBAGAFFAAVPIIMILFTVPALSGPGGGRAPFGOGLTPQR QTEMRVETQIQDQPHDKGVTETAEVPSYASQAPPAKAAQKD IETASDAKHKRPLKSKSGGGBRSPFLKSAAMBSAGSSRL PWTWKGSGGNGSAGQABRGPWGGEKQVLAQQLQSDGTYSK GGRGPGSGHTKEADKILPLVPSKVSIVKGRSRQKAFPLAKQSV DTAQGNKDLKEHVLOSLSLQSHDKKATPP
5974	4293	2200	LGLQMTTSGRIHQAMVTSINDEHESVTVWENRNDGTOKG/EID LESIFSLNPLDLVPDGEIEPSP/ETTPPPASSAKVNIKVNRR TV/ASIKNDPPS/RINKRVGASARARSPQFPQFSQAQONGS/V DISYVQAALKCFPGPPSRKSKNCVKREKLOEKREKRLQCOELE EKRAQDVDAATNPYISIMCMIRDFRGLDTEPLTADPIDEHRIC CVCKRKLANKKETQMKDLVITIPSKDVVMVHRPQKQVLDTRYL BNQTFKFDYAFDSDAPNIMVYRPTARPLVETIFERGNATCFAYG QTLGSGKTHTMGGDSPSGKNODCSKGIYALAAARDVFMILKKPNYKK LEIQVYATFVELIYSYKGVFDLNNKKTGRVLSDGQQQVQVVGLOE RRVKCVTFVELKILIDIGNSCKTSQTSANAHSSSHAVFQILLR KKLKHKFSLIDLAKNRGATSSADKQRTLEAGANKSLAK ECRALGRKPHPTPRASKLITQVLRDSFICENSRCTKATISPO MASCENTLITLVANRVKELTVDPTAGDVPRLEHHPNGADID LETQWGVSSPORLIDLKLCONEEVSQPLFTFHEAVSQMVM

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5975	4293	2200	EBQVVDHRAVQESIRWLEDEKALLENTSEVDYDVSATQLEAILBQKIDILTLRLDRKVSFRALQSEBQASKQINPKRPRAL LGLQWHTTSGRIHQAMVITSLNEDNESEVTVWETENQDTGRK/EID LBSIFSLNP/DL/VPDGRIEPPSP/ETPPPPASSAKVNIKVNRR TV/ASIKNDPPS/RDNRVVGSRARFSQPEQFSSAQQNGSV/S DISPVOAKKEPGPPSRKSNVCVEKLEQREKRRIQQQELR EKAKQDVATNENYETKCHIRDFRGSLODYRPTTADPIDEHRI C VCYRKRPLAKKETQMKDLDTITISCKQVYVTFEPKQKVDLTRYL ENQTFREDYAFDSDASPNENYVTRTARPLVETIFERQNACTFAYG QTGSGKHTMTGQDFSGXNQDCSKGIVAAARDFVIMLAKPNYKK LELQVYATFFEIYSKGVFDLNNRXTKLRLVDEGKQOQVGVGLGE REVKCVEDVLKLDIGNSCRTSGQTSANAHSSSRSHAVQITILRR KGLWKGPSLIDLAGNERGADTSSADQRTLEGAEINKSLALAK ECIRALGRNKPHTPPFRASKLTQVLRDSPIGENSRCTMIATISPG MASCENTINTLRVYANRVKELTVDPDPAAGDVIRIMHPENQI/DD LETQNGVGGSPQRDDKLLCBQNEEBSVPLETFPEAVSGMVEM EBQVVDHRAVQESIRWLEDEKALLENTSEVDYDVSATQLEAILBQKIDILTLRLDRKVSFRALQSEBQASKQINPKRPRAL VBIHLEHRSVSVVMDLILIAQSQSITKTNLVGLKRA/VIEF PEVSWSEVTPDMKQAMLTGCKA/EPTIDAENAIQKREPP FLPEEPPSSSEEDDPIBELLCLLCQZEMTAVTIPCCNGSCD ECORTALLESEDEHTCPTCHQNVDPDALIANFLECAVNFINE TGYTKRLRQLPSPPPPPPPRPLIQRLQPLMRSPISROQDPL MIPVTSSSTHPAPSISSLTNQSSLAPPVGMPPSSAPVPPDIT ATVISVSESEKSDGPPFRDSNKLIPAAALASESHKOTSSIAITA LMEEKQYQVPLVGTSPILGQSLHLQGLPTTPVPLINTARGGG RPGWEHSNKLGLVSPQQQIRRGERSCYRSINRGHISERSQRT QGPSLPATPVFPVPPPPP.YPPPHITLPLPGVPPPPQSPQPPP QGP/PRAGYSVPPPGFPDPAHLSTPWVSSGVQTAHSNTPTTQ APLRSREFFRMQRRLKEBEKKSXLEDEFTNDFAKELMEYKKIQ KEERASFRKKEPTSGSISYRSSTYTKSSSGSTRRSYSRFS RSHRSYSRSPYPFRGRGKSNHYSRSRSHOTHSRGRSPPYR RHSRSRSPQAFQSQPHKNVPPQGTETERYENRYRVPVPPVYM KAYYGRVDFRDPFEKERYEWEKRYWEYKYYKYAAGAQPR PSANRENFSRPFRLPLNIRNPSFTRGRREDYVGGQSRNIGS NYPEKLSARDGHNQKNTKSKEKSEINAPDGGKGNKHKKRKR KGEESGFLNPELLETSRKSREPTOVENKTDLSFLVLSRDDAT PVRDEPMDAESITFKSVSEKDKRRDKPKAKGDKTKRNDGSAV SKKENTVPAKPGQKVDG/DVRDLIDLNL/QLKPKKEETPKDL TILNHLPLRNMKSL/EP/BEKLTILQOQVTPRNKTSQRKXSE BGLPQRQIRKANN FLHRRQVLSFFQCSLHSHNHLHPGAQVAAQPATG/REYLT PULKSKKKEITGVITREBPFAADHILVHHCFTQWATGSELKVK AYLPTQKQPLATKVPYCYCKQKQVSEBELAETEDDGGVW DTYH/IGTITAEVKEITLENKENTRLQDCSALCEDEEDSG RAADMEVEHRSGLLEATDEATLDTRKI/VEACKARTDAGGEDALQ TRTYDLYITVYKYQTPRLWLGVEQROQPLTVENHYEDISQH VKKTVTIENHPLPMPMCSVHPGRHAEBVMKKI/ETVAEGGGBL GVHMYLLTFLKQVAVIPTIETDYTRHFTM
5976	20	2949	
5977	1363	1336	
5978	160	3213	RDAARKNGGSCSLTWAGPYFRFDLTSGRRRIGQTAEPAGRQ RPRREPRAMDQSVESIARVFRCTCMEKLRDLARLCPHCKLCC PSCIRRLWLTQRAQCPHCRAPLQRLRNVNCRWABEVTQQLDTLO LCSLTKHEENKDKCSNHEKLSVPCWTKCKKICQCALWGMH GHTTFPLAETIYCHVTKVNEBEVAKLRLRLMELISLVQZVENRV EAVNKAADKERVIRNVAEMMARLWQJKNKJITUMQOTSTSLT QFTLELSEILQREVEHGRSCSELSKSHSEIIMFQOYHKKPM ASVFTTVPVPPDPSLELVSQATATLRLNFTLRORADVPVSP LQVSLCWLRLKVYPDQGVVVGKYYLSVFLRLSGLPETSKEYER VEMVHQSCHNDPTKNI/REFASDFVEGSCGVNRFRLDLLANRG YLNPNQDVTILRQVRSPTTFQKSRDCHMYITQLEAAQTSYIOQ INNLIKERLITELSRQTSKSRDLSPPDNHLSPPQNDALERTAKKSA

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			<p>CSDMLLER\GPYSAS\VRKAEDEDEEKIQEDVYHLESDGDL DLDLVYEDEVNQLDGGSSGASSTATSNTEENDIDESTMSGENDV EYNNMLEBEGELMEDAAAAGFAGSSHGTVGSSSRISKRTHLCSA ATSSLLDIDPLILHLLDLIKRSSINLWGLQPPPPASLLQPTA STSRKCDQRQKQMMHVPSELMLKLGKLTQMAVSVMKMDVKN TLSETKSSAASQDQWQTSFSDQJALALACQGTNSGRGLQDGMH LLAKSSVANCYTRISTNKGSPKAPSSSVAGSLISRRVDFG NRSKGDQCTLSBGSQSSQSGSRHSSPRALTHQSIGDILPKTE DRQCKALDSVAVVAVFGGLPAVEKRRRMVTLGAKAGQHLLEL QMTDLNKSSETGELQVLPFGASAPFEGMSSDSQTECDTNEE QBEHTSVGGFHDSPVMVTQPPEDTHSSFFDGEQIGPEDLSFNT DENSGR</p>
5979	212	3665	<p>LPIMTWYLMKLLAFGFAFLDIEVFVTCQSPPTSTIDAYLNASE TTTLTSGSAVISTTTIATTPSKPTCEKYANITVDVLYNKETK LFTAKLVNVEHVEQGNCTNNHVNHLTECNKASVSIHNSCTA PDRLTILEVPGVEKVPVHOCQ\QVBPQDSTMLKWNKJETSCT DTQNTITNPGQNMIFDMKRTKLENLEPERHEVKDSBIYLSNKH FENASIKITKDPGSGSEPOITCKSEAAHGVITTNFPQPSFPM PFLCYIKETEKDCLNDKMLKYDLGLKRYTKVLSHVAITFA KVORNGSRANCHFT77KSAAPPQVNMVNTKSTSDNKHCKAPP DRNGPHEKYHLEVRAGNTLVNESHKRCDFRVKDLQVSTDVTPK AYFHNGDYPGEPFILHNSSTYNSKALIAFLAFLITVTSIALLVV LYKILDLHKRSQNLBQOELVERDNDEQANNVEPIHADILLET YKRKIADRGRLFLAEFQS\PRVFSKPP\KEARKPPNQNKRYVD ILPYDTRNVELSRINGDAGSNVINSYIDSPFKEPKYIAAGQPR DETVDDPWRMIWEQKATV\VMVTRCEBGNRKNKCAEYWPMSSEGT RAPGECCKCDLTHKRCP\DYITIKLMTVNNKKEKATGREVTHIQ FTSWFDHGVPEDPHLLKLRKNAPSNFNSGPIVHVCAGVGR TQYITIDANLBGLAENNEVDVGVYVKLRGRCLMVGVEAQYI LELQALVEYVQPBETRVNLELHPYILNNKMDPPSPSP\EBE PQRLPSYSWRTHQITQVQPEYXSKQNRNSVIPPYDNRVLEKE LEMSESEHDSDESDSDSDEEPKRYNASFTMSYMKP\EYMI AAQGPLKKTIGDFWQMTFQRKVKVTVNLTEKHDQIEICAOYNG BGQKTYGDI EVDLKDXTKSSYTLRVFELHSHKRDSTRIVYQYQ YTNNSVQQLPAEPKELISMIQVQKQLPKQNSSEBGNKHKSTPL LTHCRDGSQQTGTFCALLNLESATBEVVDIPQVKAIRKARP GNVSTFEQYQFLYDVIASTYPAQNGQVKQNNHQEDKIEFDNEVD KVQDANCNVLGAPEKLPEAKQGAEGSEPTSSTGEGPESVNGOP ASPALNQSS</p>
5980	3	2363	<p>DWGCFLKRLRFTYGTQTRVSLALPGQYELVHTLVHAGQNNBTI PEEHLEVCNMNEDAHDLTELEVYHMHALLQEDVWVAPCGGLR PTVVDVGLVNDLFLPVITVALKDELEEDDEOLLEIRYTSFP VFFPKVPKLASEI\INDSTRMBESBEPVRLQDLDGLYSSHNH CGAQQDQTKAQSNLVEQSEKILHLSSTPSHQVQLTLDVAAKLN LVHCHCLDIFINQAFDMQRDLQITPKRLEYTRKKNELYESLN IANKQEBMKMDIVETLVNTWKEELDDATNMEFKQIVVPNGEP VGTREIKCCTRIQELIISRLNQA\ANKLISVV\DYLRSEFVGLT ERCLQSELEKQDVSVHITSNYLQILNAAVHSVTFPHSGSSVTR MLWBIQIKI\QIRITVSPPAITLESKRVKVAQSAIESLASAKLAK STCSQPTRLNRSHEAPASLRQLEAGHSORLSKTEDMLNLRVAK DHAPRLARLSLESRLQDVLHRRKPKQLGQELGSGGYVVYLCDN MGGHPP\CAKSVVVPDEKHNDLALFHYHMSLSPKHEERLVDELG SVTDNYGQSSIAVL\IMRRLHRLDTGLKGLLGLTBLRTJIAL DVVGEHFLBGSQVHVRDLKLVLDQGNRAITLDLQCHPBA MBSOSIVGTPIHVAPELFTKYNISVGVVAGLILPFWIGSSVYK LPSAPERCASDHLNNHVRGAPRERLPVPTDETCQ\MEACWEG DPLKRPPLIGVQPMQLGIMERLCKS\NSBQDNREGLDST</p>
5981	1	2519	<p>GRKHSAAKKPFWGADGLSR\PHGTGLILLILQLPFSPTSCDEL DAPPPPAAPLPRMSGPIGVSWGLRAAAA\CGAFPRGGRMRSP G\EDBECGRVRDFVAKLANNTQHVFDDLRGVSLSLVGDSSTGV ILV\TTTHVPLVMTFQSGKLYRSEDYGNFQDITDLINTFTFR</p>

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			TEPGMAIGPENSQKVVLTAEVSGSGRGRIFRSSDFAKNFVQTD LIPFHLQMMYSPQNSDYLLIALSTENGLVNSKNFGGKNEEIHKA VCLAKNGSDNTIFFTTYANGSKADLGALELARTSDLGSKFKTI GVKIYSGFLGGRFLFASVMAKDKTTRRHVSTDQGDWNSMAQLP SVQGEQFTSLLAANDDMVMHVDPEFGDTGGTIFTSDDRGIVYS KSLDRHLVTTTTGGETDFTMTSLRGVITSLVLSNDSIQMTMF DQGRVHFLKRPENSCDPAKNNWCSLEHHSYISQKLMNV MAPLSEPNVGIIVAHGSGVDALSVWMDVYVTSDDGCSYTIML EGPHIVYTLDGGIIIVAIENHSSPINVIKFTSDGGCQCTYTTT RDPIYFGLASEFGARSMNISLWGFTESFLTSQRVSYTIDFKDI LERNCEKDYTIMLAHSTDPEYDGCILGYKEQFLRLKSSVC QNGRDYVVTQKPSICLCSLEDPLDCFGYRPNDSKVCQPELK GHDLEFCLYORBEHLTTNGYRKIPGDCQGGVNPVREVDLEKK CTSNFLSPKONSKSNSVPIILAIVGLMLVTVAAGVLIVKVCV GGRFLVHLYSVLQOH\AEA\NGVDGVDALDTASITNKS GYHDDS DEDLLE
5982	56	2316	ATRPFGSSWCRCFSRTASAAPGRSMILRPYRKALVGLSKSPK GCVRTATASNLIEVFDQSGSVHVEPGTTVLQACKEKVMQIPR FCTHEKSLVAGKNCRLVEIKAPFVIRACMPHMGHNLITNS EKSKKARGVWEFLANIPIDCPIQDGGECGLQDQSGHVNVD SKMLSEKRAVEDKNIQPLVITIM\CTCOTCTCFASEIAGVD LGTTGRGNDMVGQVYIEKMFSELSNINIDICPQALTSIPVAF TARPWETKTESIDVMDAGSNIVSVTRTGEVMAILFMHEDIN EEMI SOKTRFAYDGLKGRQLBPMVNEKGLLTYTSWEDALSRY AGMLQFQGGKDVAIAGGLVDAEALVAKDLNLRVDSLTCTEE VFPTAGAGTDLSRNYLLNTTIAGVEADVILVNGTNPFEAPLF NARTRSNLHNDLKVAILGSPVDLTYYTHIGDSSPKILQDIASG SHFPQVLKEAKFPMVLVGSALQNDGAAILAASVSTAQKIRM TSQVTDGKVMHLLHRIASQVAAALDGYEPGEVATKRNPPKYLE LIGADGGCTTQDLPIDCFITQGHGVDGAFADIVILPGAAYT EKSATYVTEGRAQCTKVATPGLAREDKIIRALSEIAGMTL PYDTLADQVNRLEEVSNLVRYNDLEG\ANTQQAELSKLV QQLLADPLVPPQLIMQDPMYHDSISASQTNACVKAVTEGAQR VEEPPIC
5933	248	1763	EARGDGGRRHRAAGRFAGKDEPVAQIKSCQRAVPKRAVARG Q\YSAAIALLEPAGSEIADLDSLYSNRAACYLEGNCSCGICQ DCNRALLEHLPFSMKPLRLERAMVETLEQYGRVYDYKTVLQIDC GLQLANDSVNRLSRILMELDGNNREKLSLIPAVPASVPLQAWH PAKEMISEQAGDSSSHRQGGITDEKTFKALKEBNGCQVNDKRYK DALSKYSECLKINNKECAIYTNRALCYLKCFFEAQKDCDQAL QLADGVRVAFYRALAHNGKKNYKSLIDLNKVLIDPSITIEAK MELREVTLLNLKDKTFEPFKSKERRKLEIQVNSGKEBPGRPA GEVSTOCLASHGGKSSSPENPEKLPKAKARABEPOIINAL SHKDEKCAHLLATAPDPLPFLSNKLEGTFTLLILQSLDEN LIEKDPSLVYOHLLYLSKARRPKMLTLISQOKSLIEQSFEDL SDTFNNHITLRLDIQALKRQYEL
5984	755	1193	SSVCMACTYVENLAKKQSVSFLASGIMRVSTGPELRLHHSFVL TGDVGRIRICLLVGLFTKGDTSSKRVHPSPGPFCLLCLLARVG SSPKINVSPPYON\QTSTORSCTTVVQRCSLVGPFQVTFVTMY PHHSLSRISRFSSG
5985	22	1408	RKVARPGTAEPKARRTVRGRARDLWGAERKAOVSERGDGSR RRNPSPISAAGMSHIQIPGGLITELQGYTVEVLRQPPDLVE FAVEYFTRLEARAPASVLPAAATPQSLGHPPPEPGPDRVADAK QESSEBDEDLVYVPPSRENNRVSCAETYNPOEEEDTDPRVY HPKIDEGRCGLGACAKDILLKYLQDQLSGLQJAMPRIVKAD SHVTDGDDCDEYVIERCTDILTYTDMKTRSGVQDNRSFG ELALMYNT\PAANTIVATSEGLWGLRVTFPIIVYHAKRKN VESFISVPLLESLEVSERMKIVDVIGSKLYA\DSRITQGB K\ADSFYIIESGEVSIILRSRTKSNKDQNGQVEIARCIHQQYF GRJALVTNKPRASAYAGVDKCLVMDVQAFERLLGPCNDIMXR NISHYEBQLVRMPGSSVDLGNLQ

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5986	1806	484	DAWKSTSLTFHWKMGRRHGRKRGALHPKNHLSFQQSGATTQVPS SPCCRFDSRPGPPPPRLGLGLALMAEDGVRGSPFVPSGPPMMEED GLRWTPKSPFLDPDGLLCTLPNGPQGGSPGERSLAPPDASI L.SNVCSIGDHWAGELPQSDLGMAEEARPGK\AQGSPFLRE EHVTCQVSIIDSELTQYGSLLPLSTDEVEKLEIDFQGSFSTP SRKGLVLQLIQSYQRMGPNAMVGRFVAYKRHLVTMDDLGTG QNWLNQVMNMVYGLVMDTVPEK\VFHFNFPFY\DKLRTKGYDG VKRNTQNVDPFNKELLIP\IHLEVMISLISVDVRRRTITYFDSQ RTLNRKCPKHIAKYLAQAEVKKDRIDFHQGWKGYFKMVARQNN DSDGAFVLQYCKHLALSQPFSTQQDMPKLRQIYKELCHCKL TV
5987	1806	484	DANKSTSLTFHWKMGRRHGRKRGALHPKNHLSFQQSGATTQVPS SPCCRFDSRPGPPPPRLGLGLALMAEDGVRGSPFVPSGPPMMEED GLRWTPKSPFLDPDGLLCTLPNGPQGGSPGERSLAPPDASI L.SNVCSIGDHWAGELPQSDLGMAEEARPGK\AQGSPFLRE EHVTCQVSIIDSELTQYGSLLPLSTDEVEKLEIDFQGSFSTP SRKGLVLQLIQSYQRMGPNAMVGRFVAYKRHLVTMDDLGTG QNWLNQVMNMVYGLVMDTVPEK\VFHFNFPFY\DKLRTKGYDG VKRNTQNVDPFNKELLIP\IHLEVMISLISVDVRRRTITYFDSQ RTLNRKCPKHIAKYLAQAEVKKDRIDFHQGWKGYFKMVARQNN DSDGAFVLQYCKHLALSQPFSTQQDMPKLRQIYKELCHCKL TV
5988	1292	410	FKKYFLSFLGLLESSSHSRDRTHNVLMTLATHNLVWVPCRFQ RLDCIYLNAGIMPNPOLNIKALLGLEFS\ABGLLTQGDKITADG LQEVETDVFHGFILIRELEPLCHSDNPSQLIWTSSNRKNSN FSLEDFQHSKGKPEYSSSKYATLLSVALNRNFPQQLYSNVAC PGTALTNLTGYLPPFIWTLMLPAIILLRPFANAFTLTPTNGTE ALVWLPHQWSSLSNPLIKYLSATTFGRGNRYINTQKMDLDEDTAE KPYKLLLELSEHIVTIQKTDQFARLSSGCL
5989	194	2610	AMDFPQHSQVLEGLAQGRGLGLCDCTFVVDGVHFKAKHVA ACSEYFMFLVDPQKQVHLEISNAGLQVLEFMTAKLSLSE NVDDV\AVATFLQWDIITACHALSLAEPTSPGNAALAT EGDGKRAKEKVATSLSLRQAGRSTPIGPSRDLKEERGQAG SAASGAQETEKADAPREPPVELKDPDTSGMVAEAALSESS EQMEVEVPARKGEEBQKEQEEQEGAGPAEVKEGSGLENCEA PEENNEESAGTDSQGLGSEARGLSGTYGDRTESKAYGSVTH KCEDCGKEFTTGNFKRHRIHTGKPPFSCRECSKAFSDPAACK AHEKTESPLKPYGCEGCKSVYLISLNLKRRHSGERYRCEZ COKLPTTSNLRHQLVHSGEKFYQCYDQGRFS DPTS KMRHLE THDIDKEHKCPHCKKPNVGNLKALIKLHIIADGPKLKRCEGKQ FTTSNMLKRLHISGEKFVYCIHQQRQFADPGALQRHVRHHTG EKPQCVCMGOKRATQASSLHVRQITGEKPCVYCROCKRFVQS SOLANHRRHWRIRPHKCSVCSKAFVNGDLKXIIILHTGSKPY LCDKCGCFRVRVRLHLSHVFTHQKQAGIKLLEFEGSGSVVVT VDMVILATKALAAATVPTLTVPVVGAAVTLDEFTKAKISIA VKQVQREDPNTHILYACDSCGKFLDANSIAGQVRIHHAALVN FQTDADFVQUGYQKGTWAGQVQLAGNELVFRPRDGABSGPALAE TSPAECPPPAE
5990	2	4700	HGPQDSGSGARGSGWGRSQAIPYGTGLAVSGGQVLLHREAGD SGFVSLRLQPSLRDKLEMEELMQDETILATGTQSYMDASLIS LIEDFGSLGVEVMSLPDPSWDFSPSPLETSSPKLPWRPFRSR PRWQGSPPPPQQRSDGEEVEASFSQILAGELDNCVSSIIPDF MHUACPREKDKATARNMVAAGDESISSELVIRAMHPYCLN LTHLASLEDKLEQPDULITPEGCVVLEIYVQGAATAGDDLEIPV VVRQVS PGPRPVLLDSDLSLSSALQLMPTLESETERAAVVPKVL CSERKGLSINSEKLDACILKPREVVEVPVPEKQNPANPAAR QSORARKKRRKSKQPAACVBYARLRSSSSRGQSTVGTVEVTS QVNTLQKQBEELKESGFLQKGRKPARARAAALESSEFPNS LERSAGQSSPAKSKPLDPLKADPTITNP\IHLILVQSSQNS PMVDVSEADPTAVGPVLAGVPVDPGHLVTLASTSEILVEPLA EPVLINVEVLDSAAVDPVAVPISDNIPPVADVPSGAPVADLAV

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			<p>DEVPNDLTFVDPVLVKSRTDPRGAVSSALGGSAFOLLVESES</p> <p>LDPPTKTLIPFVKEVVDLSIKIESGTSATTHEARFAPLISLEYKRR</p> <p>KQKQAEETKKSQWPGKMSPLPPTPTGLADIPCLVLPAPAK</p> <p>KTALQSPPTPLTCLVVPQSPADGPEPPVSVKPVASPTGV</p> <p>PSOEMLPLLRSPVPVQSVPAVPTTPSPSAAALPFPAGOLWPPS</p> <p>LPPPILQPPSLPLSMGPVLDPDFTTHYAPLPSWPCYEVSPSGYP</p> <p>CLPPPTTVPLVSGTPGAYAVEPTCSVPKADPPAPVSPYSSTCTY</p> <p>GPLGWGPGQHPAFKSTVPPPLPSPASIGRAVPQKMSRGTA</p> <p>GPENVLPLSMADPLSLGLPGHAPOTEPTKVEKVPVPASPHPK</p> <p>HKVSALVOSPOMKALACVSGVTVESPASERLKPETQETPRE</p> <p>KPPLPATKAVPTPQSTVPLKPAVHPARLRKLSFLPTPTQGSSE</p> <p>DVUQAFISEIGIRASDLSLLEQFEKSEAKKCCPPAPADSLAV</p> <p>QNSGGVDIPQKRPDLRLQAPELANVAGLTPATPTPHQLWKPLA</p> <p>AVSLLAKAKSPKSTAQSGTLKPEGVTEAKHPAAVRLQGVHGPS</p> <p>RVHVGSGDHIDYC(VRSRTPPKK)MPALLIPEVGSRMVYGRQDI</p> <p>TKHVPVLSGGAPADPPKPSLADSRPELHRTSSQADSPAPCLAPS</p> <p>SLSPASPCINDMNTKTPSPSARQKRCRACRACRASPQ</p> <p>GWQGRKGRNSRVSQSNMTSEASSSSSSSSSSSRSSRLSP</p> <p>HKMRSSSSSSSSRRSSSSSSSSSSSSSSSSSSSSSRSSRS</p> <p>PSPRKRSRRRRYSYRSHDHYQQRVLQKERAIEERRVFTIG</p> <p>IPGRMTRSELKQRFVSFGEIEBCTIHPRVQDNVGFVTRYAE</p> <p>AFAAIESGHKLQADQBPFDLCFGRQPCRSYSLDSNRDFF</p> <p>DPAPVKSKFDSLDPDTLLKQAQKNLR</p>
5991	334	1379	<p>RLSSHSFQSCSPSYC(TKDFKQGNVTSFERKXTELYQRLGLQAR</p> <p>DLRFQHMVSITVRNNRIIMRMELYKAVITPSCILLYDRNLNLK</p> <p>QMLFRELPSQLSGBOOLVTYLPFEPFRAISALLQYNINTLOGKL</p> <p>SILQPLILETLDALGDPKHSSVDRSKLHITLQNGKSLSELETDI</p> <p>KIFKESILBILDEBELLLEELCVSKNSDPQVFEKSSAGIDHAREM</p> <p>ELLLENYIRLADDSNAARELRVLIDDSQSIIFINLDSHRVMM</p> <p>RLMLQLTWTFPSLSGLMFWAFQWMLSSLEBDRITFWLTGII</p> <p>WFGSOLLWRRLLSLGL/LARSSIASYQKXWVGGIVGOL</p>
5992	2	669	<p>AGDFRDLQGVSGSGFFGGRQJQJTEWAPRFRWGMVYKLRVL</p> <p>SGQDDSEGLTAQDSQDIL/SEVLDASSLSFNRKAWPATCFVC</p> <p>GVFFSILGTGLLWPGGKLPFAVFTYTLNLAARLASTCFIMGPVK</p> <p>QLKMFATRLILATVMLLCFIFTLCAALWKKGLAVLFCILQ</p> <p>FLSMTWYSLSYIPYARDAVIKCCSSLLS</p>
5993	1650	594	<p>AEGLGSNAWAGLWAGRHMEAGGATGALQVCKLPSAFPCFPGS</p> <p>SVAMDMFCKVEKIGBTYGVVYKAMRNTGOLVALKKILDLDEM</p> <p>EGVPSSTAIRISILKELKHPNTVRLDVLVHNRKLYLVFELSLQ</p> <p>DLKYMDSPTGSELPLHLIKSYLQQLQGVSPCHSHRVIRDLK</p> <p>PONLLINELGATKADFGOLARAGVPLRTYEVVTYINRAPZIL</p> <p>LLATRYFTTAVDWSIGCIFAEMVTRKALFPQDS(EIDQ/LFRI</p> <p>FRMLGTPTGSDTWFGVQLPDYKGGFPNTRKGLBETVFNLEPES</p> <p>RLDMLQLQYDPSQRITAKTALAHPFTSSSEPSAARYVQLQRF</p> <p>RH</p>
5994	394	1934	<p>AGHQLHVMKGMRIQFI/KAAATIDLDLPFPQSPAPSKCNPL</p> <p>PRELIANQSPKPEVEPDGEXVITGSEFILLPRLPEPAGQ</p> <p>POPGILGAVTGPGRKGSRRNANGNSYALISQATISAPKRIAT</p> <p>LAQIYENMVRTVPYFKDGDSNSSAGWINSIRHNLISHSKFTKV</p> <p>HNEATGKSSWMLNPEGGKSGKAPRRRAAGMOSSXLLGERSKA</p> <p>PKKKSGPLAPPEGATPSPVGHFAKWSGPCSRNREEDMNTT</p> <p>FRPRSSNASSVSTRISPLRPESEVLAEIIPASVSSYAGGVPT</p> <p>LNREGLLELDGLNLTSSHSLSRSLSGSPLQHPGVTGPIHTYSS</p> <p>SLSPASGPTLSAGECFSSQALALITSPTPPADVLMTQVD</p> <p>PILSQAPITLLILGGLPSSSKLATGVGLCKPLERAPGSSLVPTL</p> <p>SMIAPPVMAASAPIKALGTVPVLTPTPEAASDRMPQDLDDMY</p> <p>MENTECMDNITISLMDGSGGLDNFEPDP</p>
5995	2	2437	<p>RPGFGPASPGLCTHARGSAAFVPLPRPPSPSGARRRRRLPGR</p> <p>GVALLRGPSPAGLPRGAKRSAGSGRSPSEERGAJAA</p> <p>ANMMELHSIDPRLQGLLEKAPVYGLQVSGPLASSSSQGL</p> <p>CSVGLSKDKBIVTEKKQNDQRNRKXAPYITSQKQKTPRGHK</p>

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			ISCVFERRVBPGLYGLDGSAAKATEEQSALFTLMSVMLAKPRL DTEQLAQRGAGLCFTFVSAQQNSPSTSGWTEHSCSSQKQIS I QHRQT\QSDLTIEKISALENSKNSDLEKKEGRIDDLRANCCLR RQI\DEQKQMLKSKY\ERLNRCTNEPRNFLEIKSKQEMACRD KSMQDLRLIGHFTIVKHGASFTQNTDGYAFQNLIKQQRINSQ REIERQRKMLAKKPPAWGQAPPATNEQKQRKSTINGABENETL TLAEYHQBQETFLRGLHKKKEBASIQARLERTFVTLHITREL KRHNEDNSQFKCHPTLNDRYLLHLHLLGRGQSEVYKAPLTTQ RYVAVKIHQLNQRNRDEKKYKHACREYRTHKELDHPRVITQ YDYFSLDTSFCTVLEYCEGNLDLFYKQHKMLSEKASITMQ IVNALKYLNISIKPPIIHYDLKPGHLLVNGTACGEIKITDFOLS KIMDDSYNSVDGMBLT\SUGAGTYWYLPPECFVVGKPP*ISNK VDVNSVGVI\FYQCYLGRKPPFGHNSQSDILQNTILKATEVCFP PKPVVTPKAKA\FIRRCCLAYRKEDRIDVQQLACPVYLLPHIRKSV STSSPAGAAIASTSGASNNSSN
5996	1612	981	DQACCLGLMLTLEFGILEFDPSPWIGSWTOR\SNVSWRSRPGCE LFSIVVFGSIVNVEGYLNSASEGEEFCIYNRNPNACSYGVAVGV AFLTCLLYLALDVPFQISSVKDRKK\AVLSGHPVVSQGEHPHAA FWAFLNFTGDSCYL\ANQWQVSKPKDNPLNEQTDASGRPSFSS FFSIFTWSLTAALAVRRFKDLSFQSEYSTLP\ASAQF
5997	1612	981	DQACCLGLMLTLEFGILEFDPSPWIGSWTOR\SNVSWRSRPGCE LFSIVVFGSIVNVEGYLNSASEGEEFCIYNRNPNACSYGVAVGV AFLTCLLYLALDVPFQISSVKDRKK\AVLSGHPVVSQGEHPHAA FWAFLNFTGDSCYL\ANQWQVSKPKDNPLNEQTDASGRPSFSS FFSIFTWSLTAALAVRRFKDLSFQSEYSTLP\ASAQF
5998	1612	981	DQACCLGLMLTLEFGILEFDPSPWIGSWTOR\SNVSWRSRPGCE LFSIVVFGSIVNVEGYLNSASEGEEFCIYNRNPNACSYGVAVGV AFLTCLLYLALDVPFQISSVKDRKK\AVLSGHPVVSQGEHPHAA FWAFLNFTGDSCYL\ANQWQVSKPKDNPLNEQTDASGRPSFSS FFSIFTWSLTAALAVRRFKDLSFQSEYSTLP\ASAQF
5999	2	1790	KPPNEKRRGCGVFPFGPVHLHVVGFHKKGCVEFVSYPPLIP GGGDSHLPPEBWLPPALADQDQNTQEDTVEHLPPRNGN ATVPGISCYR\QTRAKALKVQADITRETQKSVKVLGLKPLUG LLQAK\QLITHAYPEBKDFSQISLKELEHNMSSLOGASLEGS QVYLGLSPRDLVLFRRHKLILFKLILLEKVLVYFISPVNKLVG ALNTVLSLFPGMISZGLSDCSQYPRKMSSEGGI\QBSNP CADD FVSASTADVSHNTLGTIRKVMAGNHGDEAAMKTEBPLEFQVEDSS KQGEPNDTNQYLKPPSRFSPDSSESWETLDPVLEDPNLKERE QLGSDQTNLFPKDSVPSESLPITVQPOANTQGVVILPGLISGLE EDQYGMPLAIFTKGYLCLPYMALQOHHLSDVTVRGFVAGATNI LFRQOKHLSDATVBEALQIHDPELRKLNPTTADLRPADYL VRHVTENKDDVFLDGTGEGGDEWIRAQFAVYTHALAAATLQCV LRFIVVAKIKIQGNVHTT\SRNVVQTK\AVGQSGVGAFS\SAK TA\WSSWLSPTTSTTSQSLTSPDEPK
6000	101	1561	TEPCRTAHNCTATWISNNYNSSTESLQK\KCHPTWNLWEGNSL DDPEDKVPYKTEPQNRKFKATVCKNLAYLKHJLQGNAALECLR KARELIQQRHADOQASISLVITWGNVAVVYHMGRLSDVQIYVDK KHVCCEKFFSSPYRISPELDCBKRWLKKCGNQNRKRVCFEK ALEKKPKMPREFTSGLAIASRYLNDWPPSONAIDPLRQAIRLNPD NQYLKVLALLKHKMREGESEEGEGER\LVEEALEKAPG\VTDV LRSAA\KFYRGKDEPKAIELLKALEYIP\NNAYLHCQIGCCY RAKVPQVMNIRRMNGYKGRKLELIGHVAHLKKADEANDLNR VCSILASLALADQYDAEYYPQKRFSEKELTPVAKQLHLRYGN FOLYQMKCKDAIHFFIEGVKIKQKREKEMKDLQKIAKMLRL SKNCADEALHVIAPLQINEMKQADNRKSRGLESGLSLPAS SNNGE
6001	176	1038	APAHSPSRGHRHCTHTPRTTCTDASHLQSSLITAGQFFEL NLHPDAGSGYLEKCKLQNLQKLOQARKKAGLESPKMYFFTD QYQGRDDKIGTVELAVHLPTEENFILLFRQOQLKSC\EFWKT WRKYTDHDSGIFIRTEKKNFLKDLIRKANKTVDDTKLAETIDM

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6002	977	81	LKLPDSNNHGKLEITEMARLLPQVENFLKQFGGKMGCKEFPNKA PELYDQDNGYIDENELDALLKDLCEKNNQDLQDINNITTYKNI MALSDGGKLYRTDLALILCAGDN LAPPGSGLHIPPRTPLSHSRPPPSHHAPHSPPLPLPPADLPHPS SMAQRSDLELDCQLTRORVVVSHDENLCHQSGGLNRDVCSLDF RLPLTKRLVYFSPGCHFAHSSDRMRVLELDFQRFPTPTMSV EIKGNELRLRQ/VLVRVDRNBITWASFSVSVKCKCAANP EMPLSPTISRGFWLLSYLLGLLEPPTIPKFKFPFCLVNIKRT YFFPSCSCINQLLAVVSKWLMRSLIRHLEERGQVQVFWCLNE ESDTEAASFVGATGVITDPTALRHYLNDNGFAARTS
6003	140	4098	GKIRAFGRMRRLICKRICDYESFDEESVGNRPSSASAFKVP APKTSNGPANSARKPGSAGGPKVGAGCKEGGAGAVDEDDFIKA FTDVPSIQIYSSRELESLTNKIRILSDDKHWDQANALKKIR SILVAGAAQYDCFFQHLRLLDGALKLSAKDLRSQVREACTIVA HLSTVLGNKFDHGAERIVPTLFLNLPVNSAKVMATSGCAAIRFII RHTHVRLIPLITSNCTSKSPVRRRSFEFLDLLQEQWQTHSLE RHAIVLVETIKKGIDHDAARVEARKTYMGLRNHFPGEAETLY NSLEPSYQSLQTYLKSSGSVASLPQSDRSSSSSQSGLNRPFS KNSTANPSTVAGRVAGSGSKASSLPGLQRSRSDIVNAAAGAK AHHAAGQSVRSRGAGALNAGSYASLETSKLDGTASEDORV RAKLSAPLAGMGNKADSGRSRRTMVVSQSQPSGSRSGSPRVL TTALSTVSSGVQRLVNSASAKRKSIPRSQCSREASPSRLSV ARSSRIPRPSVSGCEREASRESRDTSPVRSFQPLASRHHRS TGALYAPEVYAGSGPGYISQSKLSSSVSANRLXTGSDVEEA VADALLQDITRTKKFARRRYESYGMHSEDDANSASSACSESS YSSRNGSIPTYMQRT/EDV/AEVLNRCASSNWERKEGLGLQN LLKNQRTLSRVRLKRLCEIFTEMFADPHGRVFSMFLTELVDPI QVHKDDLQDWLFVLLITOLLKKMGADLLGSVQAKVQKALDVTRBS FPNDLQNLMRFTVDQQTTPSLKVKVAILKYETLAKQMDPGD FINSSETRLAVSRVITWTTPKSGSDVRKAAQSVLISLPELNTPE PTMLGALPITTPQVQATKLLNHLNRLRNTKQTSKQSPILTRTP REAFANWSSPLTSPNTSNTLSPEADYDTENMISREDIYSSLAG VTEAIQNFSPRSQEDMNEPLKSDSKDDQDSMCGPG/VMSDPA GGDATDSQOTALDNKASLLHSMPTSSPSRDIHPNYSDSIS PFNKALKANFDDADQFPDDLSDHSDLVALLKELSNHNHR VEERKIALVELMKLTQSESPSVMDHFKTILLILLETLDGKEPT IRALALKVLREILRHQAPRFNYAELTVMKILBAHKDPKHEVVR SAREAAVS/LATS/SEPEQCIKVLCP/IQTADYPLNLAIRMQT KVIERSKETILNLLPBLMPLGLIQYDNRSESVRKAQVPCLVAV HAVIGDLKPHLSQLTGSMMKLLNLYIKRAQTSGGADPTTVDVS GGS
6004	140	4098	GKIRAFGRMRRLICKRICDYESFDEESVGNRPSSASAFKVP APKTSNGPANSARKPGSAGGPKVGAGCKEGGAGAVDEDDFIKA FTDVPSIQIYSSRELESLTNKIRILSDDKHWDQANALKKIR SILVAGAAQYDCFFQHLRLLDGALKLSAKDLRSQVREACTIVA HLSTVLGNKFDHGAERIVPTLFLNLPVNSAKVMATSGCAAIRFII RHTHVRLIPLITSNCTSKSPVRRRSFEFLDLLQEQWQTHSLE RHAIVLVETIKKGIDHDAARVEARKTYMGLRNHFPGEAETLY NSLEPSYQSLQTYLKSSGSVASLPQSDRSSSSSQSGLNRPFS KNSTANPSTVAGRVAGSGSKASSLPGLQRSRSDIVNAAAGAK AHHAAGQSVRSRGAGALNAGSYASLETSKLDGTASEDORV RAKLSAPLAGMGNKADSGRSRRTMVVSQSQPSGSRSGSPRVL TTALSTVSSGVQRLVNSASAKRKSIPRSQCSREASPSRLSV ARSSRIPRPSVSGCEREASRESRDTSPVRSFQPLASRHHRS TGALYAPEVYAGSGPGYISQSKLSSSVSANRLXTGSDVEEA VADALLQDITRTKKFARRRYESYGMHSEDDANSASSACSESS YSSRNGSIPTYMQRT/EDV/AEVLNRCASSNWERKEGLGLQN LLKNQRTLSRVRLKRLCEIFTEMFADPHGRVFSMFLTELVDPI QVHKDDLQDWLFVLLITOLLKKMGADLLGSVQAKVQKALDVTRBS FPNDLQNLMRFTVDQQTTPSLKVKVAILKYETLAKQMDPGD FINSSETRLAVSRVITWTTPKSGSDVRKAAQSVLISLPELNTPE

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			FTLLGALPRTFDGATKLLNNH.RNTGMGTQSSMGSPLTRPT RSPANMSSPLTSTNTSQTLSPSAFDZTENMNSDIYSLRG VTEAIQNFSFRSQEDMNEPLKRDSDKDDGSDMGSGG/MSDPRA GGDATDSQTALDNKASLLHSMZTHSSPRSADYNPNYSDSIS PFWKALKEAMFDGADQPDOLSLSDVLAELKLSNENR VEERKALYEKMKLTGSESPVMDRPTITLLLLRLLQKEPT IRALAKVLREILRHQPARFMYAELTWKTEENKDPKKEVVR SAAEASV/LATSI/SPEQCKIVLCPITQADYINLAIAK/QOT KVIERSVKETLNLLLPINGLIOGYDMSSSVRKACVFCVAV HAVIGDEIKPHLSQLTGSKMLLNLKIKRAQTGSGGADPTDVS GQS
6005	133	5955	RSSGRQEQGQFPGERKGMASGLSPSPCSAGSEEDMDALL NNSLPPPHPNREDEEDLSETETPKLKKKKPKPRDPKIPKS KRQKRMMLLCRLGDSGSGPEFVEESVALRSDSGSDYTP GKIKKKKKPKKEKKS KSKRKEEEDDDDDDDSKSPKSSAQLL EDWGDNDLHVPSSDEYRLTYKAPSGFVRLIAAKNPKIAVS KPMVLGAKRPSFTNPFKGGSGASVAAAAAVALVVESSMTA TEVAPPPPVYVIRIAKTEKSGPMARRKPSGSPVDAKKPK PKVADPLKLGQSGKPKKSSSEDDDLVSDPDASINSYSV SDGSTSSSSRSRKLRTTKKKKGSEVTVADVDYEDHDQYCEV CQGGQEIILCDTCPRAYHMCVLDPMKAPKQKWSUPEKEGKI OWEAKDINSBGEIILRVGGDLSEEDDHNEFCRVCKDGGELL CDTCPSYHICLNDPLPEIPNGEWLPCRTCPALKGKVKQKILL WKWQGPSPPTVPVRPPDADPNTSPKPLGEPFRPQFFVKNQMS YHCHSVSELQLELHC/QVMFRNTYQKIDNDPSPGDTGGDEEK S/RKRNKDKPKFAMBERFVRYGIKPEWMMHRIHLANSVVDKG HVHYLKWRLDLYDOASWESEDEIQDYDLFKQSYNHRMLMRG EBERPKKLLKVKRLKLRPPETPTVDTVKYERQPEVLDATGG TLHPYOMGLNWRFSWAQGTTLIDKGLKTKVTAFLYSL YKEGHSKGPFL/SAPLSTLIHWEREFZGVADVTVTVYVQDK DSRAIIRENEFS/PEDNAIRGOKASRMKKEASVKKFVLLTSYE LITIDMAILGSIWACLIVDEAKRLVNNCSKPFVLMGYSLQHK LLLTGTPILQNNLESLPHLLNFLTPTFRFNLGELFEFADIADK QTKKLEDMLG/PHMLRLRLKADVFMNPSKTEILV/RVLSPM/Q KITYK/YILHSKFLKALN/ARQGGNQSLLNVMDLKKCCNHYP LFFVAMEAPFMNMGYDGSALIRASQKLLILQKMLKLNKLGEGH RVLIPOMTKMLD/LEDFLEHBYKYERIDGGITGNMRQBALDR FNAQGAQGFCLLSTRAQGH/INTLATADTVIYDSDMNPNDIQ AFSKAHLIGKQKVMYFYFTRASVEERTITQVAKKQMLTHLV RPOLOSITSMSSKJELDLILFOTTELPKEDATDGGDNKGGED SSVHYDDAKIERLLDRNQDSETELLKQMLVLSKVAQYV REEMCESEEREVEI/KQESVDEVDYEWKLRHGYEQQQLAR NLGKGRIRKOVNNDGQQRDRWQDQSDNGSDYSVASERGDE DFDERSEAPRPSRKGRLNDCKPLPLPLARVGGHIEVLGFNAR ORKAFNALNMRKGMPPQDAFTQMLVRDLRGKSEKEFKAYVSLF MRHLCEPGADGAETFDGVPRIGLSRQHVLTRIGVNSLIRKKVO EFHIVNGRWSMPELAEVRNKKMSQPGSPSPKPTPTSPGDTQ NTPAVPVPDADGIKENSLKKEESIIGKEKVKSTAPETAIBCT QAPAPASDEKVVVEPEGSEKVEKAEV/KERTEEPMEPEPKGK AADVEKVSSEKSAIDLTPIVVEDEKKEEKEKKEVNLQNGETPK LDNDEKQKKNIKQRFMFIADGGFTEHLSLWQNEEAAIVTKKT YEIMWRHDIWLAGINIEGYARWQDIQNDPRAILNPSFKGEM NRGNELSIKMYLARKKLLSALVLELIDRRAVLAWSPEPSH PSMALNTRFAKVCALASKEHSLKESNAGNKPANVILWKLQEL RELLSDMKADVTRLPATRIAPPVAVRLQMSERNILRLANRAP EPTQQAQAOQ
6006	1	965	DNDPLRNTVTHRRFPVTAEPRIALLAENRIVVVDKSSIPVPHC GRFRHNTVIFILGKKEHOLKELPHLRDLR/TSGLVLPKATAVS ERIHQVDRDQLEKKEYVCRVEGEFPTSEVTCKEPILVYSYKGV CRVUPGKPKCTVQRLSYNQSSSVRCRPLTRTHQIRVHLQF LGHPLINDPIYNSVAMGDSRGGGTIPKINRELLRDLVARIQAK

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6007	3	2351	<p>QSLVDLDCGGDISPGLTDTAPSSSLGKDDLEIAAAA\QKME EVAEAPQELDTIALASKAVETDMNQ\ROT\TLCRVPAGATG SLAPRCIDVPTCPPL</p> <p>HELQGVYVFTDKIGTLTENEQPRSCINGHKYQSIGNRLVPE GPTPDSSEGNLSYLLSSLSLHNNLSHLTSSSFTSPINTELK EHLDFPKAVSLCHTQVINNVTDCCTGQDQPHQSNLAPQSLSYAS FSDKALVEAARIGIVFIGNSEETMEVTLQKLRKYLHILILE FSDRRMSVTVQAPSGEKLIPAKGAESSILPKICGSGIKETRI HVSFALGKGLTICIAVKKFSEKEYESIDRRFPARTALQQR\B EKIAAVFQPIEKQILLGATPAVERLDQKVRHTRALRAGIKIV WVLGDGKHETAVSVSLSCGHFRTMWLELINQSGSECAQLA QIARRITEDHVIQHLVVDGTSLSLALREKLEFVEVCNCSAV LCCRMPLQKAKVIRLIKISPEKPIITLAVGDGANDVMSIQEAHV GIGINGKEGRQAARNSDYAIRKPKLSKLLFVGHGFYIRIATL VQVFFYNKVCFITPQFLYQYFCPSQOTLYDSVYLTLYNI CPT SLPILISLLEOHVDHVLQNKPTLYRDISKNRLLSXTFLYWT ILGFSHAFIPFPGSLILGDKTLLSGNGQFNGNTFGTLVFTVM VITVVKMALETHFWIWINHLWTGSIIFPVFSLFYGGILMWF LSSQNNYVVFYIQLSSGSAMFAIILMVVTCFLFDIIKKVDFRHL HFTSTKALQJETMAGIKCLDSMCCFPGEAAACASVGRMLARVI GRCSPTHSRSGASDPFYINDRILLTSTMDSTC</p>
6008	4554	1009	<p>AGVEKAGARRGPKALPAGATVTPFSRRERRCAPLHAGPAR ASRPQSGTNPOLPVNMLASLRKARTKVKILSOLGPKSEHIE DFKQFEPNDLYNKNTWEDVGLWDPSSLTKNQVRYTKPCCSACP FSKFFSAYKSHFRNHSSEDFNRILLNCPCYTNADKRTLETE IKIFHAPNASAPSSSLSTFKDKNNNDGLPKQADSVEQAVVYCK KCTYDRPLVETVRKHLVYRHFQVAAPIYAGGERSLNAVPLG SNARESSIIHCKRCLFMKSYEALVQHVIDEHRERTGYQVTAMIG HTNVVVPASKPLMLIAPKPQDKSMGLPFRIGSLASGNV\RLSP SQGMVNRSLSPKPNLNSGTGNMSSVHLQNNNGYVSGVQCGYSV QSGMRLLQGNAPVSI PQQSGSVKQLLPFGNGRSYGLGSEQRSG APARYSLQANASSLSGGLKSPSLSSQASRVLGQSSSKPAAA ATGPPTGRTSSTQKWKICTI CNELFENYVSVFPEKKAKEPYE AVANYIMKIHNFPTSCLVYCNRYLPDTFLASMLLIGLSCTPCLS TFNDVEMAAHNNRVHIDEEMGPKDSTLSFDTLQCGSHNTH LLVITVNLRDAPASVAYHAQNNPVPVPPKQPKVQKADIPVES SPQAQVVPYKDVGKTLCPFCPSILKGEISDALAHLEKSHQVTO TVHPVEKILTYKICIEGLVYTSNMTATITLHLVCRGVGKTN QDKTNAPSRLNQSPLAPVIRTYBQMEFPLKKRKLDDSDSP SPFSEKPEEPVVLALDPKH\EDDSYEARKSFLTKYFT\KQPY TRRIEKLAAALWV\WK\SDIASHPNSKKRKKVCRDCKEYKPGVL LGFNMKELMKVKHMDFAEGLFRHLEKDSBRVNASKADKRLN LCKSDSSSDSPNLEESNBSGSPFPDFVEFPIKLSNDNPEKH VLKVIDEASSEKFLQKQSGSKYETILHSEPTKLHMHNASDS KYQDDVVVEKQASPSSESGSQGVSDHNTCNKPTQVAGDQNG SSQSEDAASSKBAKKATWQGRDQLKLMKSSYKVDVPSKD QSQNKASSENDKLSNPQTEWQNSTIDSEBQGGFDMNTDGVAPF MHGSLAGVKLSQQA</p>
6009	4272	1534	<p>CHGLQLHTFPRELNLSQL*EPH*AAQAVSEKSKT*CGSPFC HLVLGVLPVARSQSSHSAPQAQAFR*GTGSGSTFAJARSQSW EAYTLGHQHNWFFIQRPLVMKGRIMCGKCEK*VDSVYTG RAVAGEQASQRTVTFIAGGCECLGAKSVRASVFTGNGPVNGL NGKEGGCGFSGYLPGFIVIGIQSLKAVLPVNGVQTERASPG NCR\HIVDAVC*SEH*DEFLAAAFLENSTIIS*VAPGSHQDHA VIQKQVQSVRCGFESVDTPAGFVANSPPGLQGEPTTTSVSL FVLAQ*QXGVPFVBSGLVTVLGLVPSISKHTFVHHQLFLHP *KIGADVAFPLALLTVCSGFIVAYG*GRNGSTLHLLFAENV AVTRCSAVCRPSITSSIHVHTKIQGLHFTVYVAGDQVQNG DPFYVGI\AGI\PHI\IDDPILQHLSTORRV*ROCGVCPDSQPP RLPVLGILQVGPVRRGGKRVAGRCKRCHRDLPFRWGLSHT RDLLRGGRGVHVVIVLCRLGSLVQGLTLELLWFGGR*LIITIG</p>

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6010	1	3533	<p>I**RGRLSGEWGCSLGRGELFQVSTIGVSTVHLGGQDHEVLGG AGLVERGALHATGQGVLEALVQQLLDVPGAPAGLGLCGAALFQGF GRVGOLPABGLQVCITLVAQWRMIDGRBGGATWPNQALHGAAL CGVGAILLKALSOYFLKGG*RLWCARGO*PVKRGQRNRWG*TR R*NGLTIIHCFN*LI*GAVCCRLVILRWGLLEVHGVYGT*THCL GSFPGRLWP*PFISQERFNGHCQWEFLAVPSSWCKRNSRWVRG TWYDPIIMLI*GAILGGACGCGGQGFILSTMGACTGPGGAAP LPFGQACRFTRQCKTWVCPILAWGLIATTD</p> <p>INPCGSRRLGSCWTHPHEFVSDDLSTFCTESVRENSKVLGREN AGISNAQKTGDI.PAPGECVGTASKALCGLTEAAQAQAYLVGIFD PNSQAGHQGLVDPIQFARANQAIGMACCNLDVPGSSPSQVLSAA TIVAGHTSALCNACRIASSKTANFVAKRHFGVSAKEVANSANL VKTIKALDGFSEENRNCRIATAPLIEAVENLTFAPSNPFVVS IPAQISSEGSQAQEPILVSAKPMLESSYLLTRTASLANPKDF PIWSVLAGHSHTVSDSILKSLITSIRDKAPGQRCDYSIDGIRNC IRDIEQASLAASVQSLATRDDISVEALQEQILTSVFORIHLIDP IATAARGEAAQLHGKGTQILASYFSPSLILAAVQVASKILDHQQM TVLDDTKTLASASLQMLVAAKRGOGNPKAQHTHDATITAAQLMK RAVIDTWITNIRAAASVGLVGNVDAIAEAMSKLDEGTPEPFGG TFVDYQTVVYKSAIAVTAQRMKTSVTPHELGLASGMSDS YHGLAPOGQAAATAEPBETGPIQIRTRVQDLGHCITFLQAGAA ALQVCPDSTVTKRELECAVATEKSVLVLASLQAGNKGTQACT TAAVAGSGLIADLDTIMFATAGTLNARNSETFADRENILKTA KALVEDTKLLVSGAANTPDKLAQAQSSANTITOLAEVVKLGAA SLGSDDPETQVVLINATKDAKALSDLSATGAASKFPVDDPSM YQLKGAAKVMVINTVSLKTKVAVEDATRGTPALEATIECIKQ ELTVFQSKDVPKISSPEESIRMTKG-TNATAKAVAAQNSCROE DVIATANLSKRAVSDMLTACKQASPHDPVSDSEVRTRALRFGTEC TLGLDLLEHLVILQKPTPELKOALAAPSRRVAGAVTELQAA EMKGTETWVDEPDTVTAETELLGAASITSAARKLEQLKPRAK PKQDETLDPEBOLEAAKSTAAATSAALVKSASAAQRELVAGOK VGSIPANAADGQWQSGILSAAWVAATSSICBJANASVOGHA SEKLLISSAKVCAASTQOLLVACKVADQSEMRRRLQAAGNAV KRASDNLVRAQQAAGKADDDVVVVKTFVGGIAQLIAAQEEM LKKELELESAARKLAQIRQQQYKFLPETELREBEG</p>
5011	446	1835	<p>LLQFANRKSFGSLDCMAMWILLSTLTGSRVSGQFSLQDELDDIT TVFTRILDRLLDGYDNRLRPLGERVETVKIDIFVTSFGPVSDH DMBYTIDVFRQSWKDERLKFPGMTVLRNLMASKIWTPTDF FHNGKKSVAHNMTPNKLRLITEDGTLTYTRLTVR\ABCPNMF GRDFPM\DAHACPLKPGSYAYTRAUVVYSETPREPARSVVAED GSRNLQYDLLGQTVDSGIVOSSTGEYVVMTHFLKRIKIGYFVI QYLTICMTIVLSQVSPWLNRESVPARTVFGVTVLMTWTLIS ARNSLPKVAATANDWFLAVCHAFVPSALISFATPVYVFTKROYA WDGKSVPEKPKVKDPLKKNVYATPATSYTPNLABQDPGLA TKAKSITTEPKVKPSTKPPPEKKTNSVSKIDRLSRIAPFLPL GIFNLVYNMAYTLNRPOLKAPTDDQ</p>
6012	351	5013	<p>PAELFQSFATWHKRLYDNRLLGPNVCCQDPISESLKPLECKGE BGIQVRELIACIQKDKDIPAEIDLICEYEPKLELQACILPQQD CIVFSESAWSECKSTCGSLQHRTRHUVAPPQFGSGCNPNTF QVCQSSPCEAEKLYSLHVGWPSTCSMPSHRQVRQARRRGNKE REKORSKGVKDPARELLIKKENRNRQNRQENKYNDIQIGYQTR RVMCINKTKGAADLSFQCEKLPMTFCSCVITKECQVSEWSWS PCKTCHDMVSPAGTRVTRTIRQFPIGSEKECPEFEKPECLSL QGDGVVFCATYGMRTTEWTECRVDPLLSQDQRRGNQALCGGG JOTREVCVCAQENLSQLSTHKNKESKPMILKICGTPIENTT QLCHIPCPTKCSWPSWANGCPTTGNWQDQKGFILKRRKRT NEPTQSGSVTNGPFLLEATPCBEGACYDWARVAGDQDQNGK KEG*GOTQVQVVCINSIGEEVDRLCNDALFPPIVACDAPCTID CVLSTWSTWSSCSHTCSGKTFEGKQIRARSLAYAGEGGGRCIP NSSALQEVRSCEBHCPTVYHMQTGWQCCEDTS/SSPMTTWTW NGEASCVMQTKRVCVRNVVQGVGPKKCPESLPEPTVRCILL</p>

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			PCKDCIVTPYSMTSCPS\SCCKGDSIRK\GSRHVITQLFAN GGRDCTDPLYEKACEAPQACQSRH\KTHKN\HRCQ\LVP\WS VQQDSP\GAQEGGCPGRQARAITCRKQDGGGAGIHECLOVAGPV PALTQACQIPQDDCQLTWSKFSKSCNCGDQAVRTRKRTLVGKS KKEKCKRSHLYPLIK\IYQPCCDKNYNAQPVGRWSDCLPEGKVE VLLGMVQGDIEKCGQGRIRIQAACCTDQGRVLRVETSRCSHGVI EACTIPCRSDCKEISWNSRSCSKGCGSGGVSRKWLAEKFN GGRCPKLDHVMQAVYKTV\PCBDDCQY\WTKWPS\CKVIFY NMRRNCGSVQTRKVR\CMQNTADGSEHVEDY\LCDPEMPLGSR VCKLPCPRDCVISEWGPWTQVLP\CNQSSFRORSADPIRPADE GRSCPNAVEKEPCNLNKCXYDYNVTWSTQLSKAVCNGNGI KTRMLJCVRSDGKSDVLKYCRAIGLEKNQMTSCMVCEPVMQ LSDWSPWSECSQTGLTGXIMRRRTVTPPQGDGRPCPSLMDQS KPCPVXPCYRWQYQNSPCQVQEAQCGEGTRTRNISCVSDGSA DDFSKVDEEFECADIBLIIDGNKIMVLEBSCSQPCGDCYKDW SSWSLQ\TCVNGEDLGPGGIVQSRSPV\IIELENGHLCPEQML ETKSGDQCCTEYIMASAWKSGSSRTVWQSRDGINVTGGLVM SQPDARSCHMP\PCQSPHAYGSETRTCHCEGGTETVMSNSLTQ CTLLP\VVLEFEDKSGDVTSEAVIPFQPSNFAIGRGTWFLQ PFGPDRLKTVWYVAGAPV\MLFFVSMV\IACCKPKGPRQ NNRLKTLAYDGDAM
6013	1161	710	GAFIAGVFPVQFLIRFNSLDT\SWAMWPGVKLVMLTASQPC SIVDVEPLPVTHPSPRESRDTPL\YANVQRVMAQALGPATECE FVGLSLVIVVGRKLVALEPOL\WGTGKSASRGAWVRLCGRWGR APRESNDQGRVCQARTAL
6014	2857	613	EAVAGGKESNNLPLKGPDTL\CFDKORF\KEDFVDHDFSDCK RVQLESLRDLLELYKLLKTAMVLELNDYADF\NLSLTVGN DKALNL\SVLPQLREELVLSRSSVSGIRI\RAVDRMSKQDIRK KMCVLR\LIQVIRSEVEIKILNSQSSKTSALBASSPLLTQGI LERIATEPQIQFPCQSK\GNPLLDKVRERLIGITAMLQGSLE QLLKLQLOTSVD\IIRKCLTAT\IKTKTAEALVQQLVRFYI DEVIIIEQFVESHMGLQVYNELLE\VPDHKRLRLRTVGAISS EKGNTVPFYGVPLVNSVMO\IVQGLEKLP\SLFN\GNPDAPEHY TISMDFVRRLERQCSQASVRLRAIPAYHSNKKNNLPVYFQI RFRFIAGSLEALITVLEDAPARS\PYCLASHRTWSSLLRCSWD EMFLPLLVRHLVRLHSGR\FWARYSVF\N\BLSLRPISNESPK IKKPLVTGSEKPSITQGNTEGQSGSPSETQPVVSISRTQLVVV ADDLKLQELPELLEIKPKLEMGFKNPFSSIAALEDQSSPS ACVPSLSSKIIDLSDSCFGPLSKALEVPRLYRRTNKEVPTTAS SYVDSALKPLPQLQSHDKLQKAI\IQOMLEGTLSBETHKYET VSDVMSVKMEESLKLKQARKTTPANPVGSGSGSDDDKIRL QALDVYLGBOIQNLGLQASD\IKSPSALAEVLAAKQATASQ P
6015	13	2237	ABGCABRRRTFPPVFLSNWSWESGAGPLGSGQMDLVWSAWYKC VKKGSLPLSAHGIIVAWLSRAZGQDVTYV\PCDHLQRYALN RITVWRSRSGNELPLAVASTADL\TRCKLDV\TGGLTDELLRLY GMALVRFVNLISERKTKFAKVP\KLCAQKVNIPDNVLDRLHET HKMMPHINDCRRCQFVLDLQIKTYCROLENSLREIWELEEF RGIEEKDQREDKNI\VDIDITQKPEPQDDKSTSDSDVAKGDSK GSEEDVSHCKKALSHKLYIRARELLVSYSEBQFVLEKPRYLP XAKVANNPSPRVSCVIAELKVTICNREAVLDAFLDGGPLVPT PBLAALQI\YEENVDLNDVLPKPPSQPQWPLLRLGLHSQNTQ ALLERMLSEL\PALG\ISGIRPTIYLRVTLEIVANTKTGRNARR SAGQV\ARRGKRLPCHASLDWRMVESCLGSPCWASPQLLRIT \KAMSGOGLAD\ROKELKLCISITYSGENSELWVQBSRASFP KSPFTLDSLYKVPASSPSGSAQAGQSGQSGQVMDKHEKE KEVFLPDVKEKHHNDQREKREDEDDDEDEKDRMVQPSPTG QESPTAENARLLAQKRGALQGSANQVSSSEVDWDTF\LGRRMP SRPKTPASML\ENDTHIVFWTKPVL\BQRELEPSTCK\TDTLGL \SCGVGS\GNCSNSSSNFAGFLAEARGSLH\GL\KTGLQLF
6016	13	2237	ABGCABRRRTFPPVFLSNWSWESGAGPLGSGQMDLVWSAWYKC

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A-Alanine, C-Cysteine, D-Aspartic Acid, E-Glutamic Acid, F-Phenylalanine, G-Glycine, H-Histidine, I-Isoleucine, K-Lysine, L-Leucine, M-Methionine, N-Asparagine, P-Proline, Q-Glutamine, R-Arginine, S-Serine, T-Threonine, V-Valine, W-Tryptophan, Y-Tyrosine, X=Unknown, *Stop Codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
			VKRGSLPLSAKTIIVAMLSAEADQVTVVFLFCDHDKLQRYALN RITVNRSRSGNELPLAVASTADLRICKLDDVGGGLGTDLRLDLY GMALVRPVMNLSRRKRTFAKVPKLCLAEVNIPEWIVDLRHELT KKMMPHINDCRGGYCFVLDWLQRTYWCRLQENSIKRETNELSEFR EGIEREDQEDKNIYVDVDTQGFPEODDGRSTESDVKAQKDSK GSEVDSCKKALSHKLYRARIILVSYSECFVLEHFRYLP KAIKAKNNPSPRVCYLAELKGVTCENREAVLDAFLDDGTPPT PEQLAALQIEYENVDINDVLPKPPSPFPQILLRGLHSQNTQ ALLERMLSELPAIGISIRPTTYILENTVELIVANTIKTGRNRRP SAGQWEARRGWRLFNCSASLDMRWVESCLGSPCWASPOLLRIT F\KAMQGGQLQDE\ROEKLRLICSTYTSQSGENSVQSGSEASP KSPYTLDSLNSVSKPASSSPGSEAKAQOQSEGSVNDVKEEKEE KEVLPDQVESEENDDQEESEDEDDDEDEEDRMEVGFPSFTG QESPTAENARLLAQKRGALQGSAMOVSSSDVRWDTPPLGRMP SRPPTFAGLLENYDTHVIFWTFPVLA\QRLEPSTCKTDTLGL VSCVSS\GKCSNSSSSNFRGAFGLSARGSLGLQ\KVG:QLP
6017	203	3469	SRQETQSNMAFKKRGRIISFFCFGRNDHPEITVRLRNS NPALOTQSPALPVEPVELVDFEVLDELDTDRHMAFALP AEKKWQYCSKKQDEBKQASHPVEFIDLSHVAEALFALP EKEEESERSKTIKSLKTA\RTKMPRTVTRIDLDGLSLNPLK TMDVTSERISHTSLGICIKALMNNQGAHVLAHSESINVIQ SLSTENIKTKVAVIILGAUVCLVPGGHKKVQLMHLGYCYASER TRFQTLINDLKSTORYRDEVSLEKTAIMSPINAVLSQAGVESL DPRILHRYE\PLMGLIHPVMDKLKHNSTLDRLDDFFEMLRNE DELEFAERFELVILDTKSATQMFELTRCLRLTHSEAYPHMPSILH HCLQMPYKRSQNTVOYMLLDRIIQIIVIQNDKQDPDSTPLEN FKIKIVRMLVNEVMEVQKWBQABKREKHNLOQLEKKEREC DAKTQSEKEMWQTLNFKMKLEKEBTEHQQKQVQVADLTAQLHS LEBRAYCASTPGPSEGAPOCFFSSVPSGLLPPPPPPPLPGQM LPPPPPPPLPGOPPEPGBBPLGAIKPPFADWGLAKKKSIFQ PINALKSPNNKSLPENKLEGTVTRIDDTKVKILDLLELERT SAYQRQDQFFVNSNKOKEADAIDTILSKLKVLELVIDORRA QNCNILLRLKLSNDRIKRAILMTDQBDLPMLEQLKLPVPE KSDIDLEEHKHELDMAKADRLFEMSRINHYQRLQSLYFKE KPAERVAEVPKVEIARSGSESVFSGALKQLLEVVLARGNVYN KGQRGNAVGFILSSINKIADTKSSIDENITLHYLITIVENKYP SVMLNLESLDIPQAKVNMNTLDKEISTLRSGLKAVETELEYQ KSCFPQPGDFVSVVSQFITVASPSPSDVLEDAEKDLFTKAV KHGFEAGKIQDFEPFQIDQLOAVSEAKQENENMRKKEEKEE KRAMELAQKQPRERRMRKAKENSESEEGFDLVSALRGEV PDKDLSLKNNKLLTWNTDSSREDAITKLE
6018	13	2510	TISSGGGIRRRKRAVWFEVVRNDSRLMHSYQCVQVNTGCTY ALSSSYSSDALDFETHKLLDPVDPSPRMSRLRLATTACTLQD QNAVQADSGTSSAVSLKNAKATTKORRESYNKSPSINHVSQV TSSGVSYGGTVSLQDAVTRKPPVLDESIRIEQITVDHFWGLDD GDLKGGKNATQKNGDVGAAGATGNGFFCSNMCNLERKDVLT AHPAAGPVSRVYSRDRNQKDCCKGRHLDHAFORAGTLNHLW ACAGYFLQLLRLRI GAVQAVSR TAWGALNLA VAVQKAAAGVYF WNLGIGNYQFVTLISNLNVLTLTRCLRNICKFVLVLLIPLFLLLG LSLRQOG\NFPSPLPVIANWASMRHQRVDDPDQVFKPTSLRLQ PLQDSRAFFWHMNSGVBCQVASLGGCCHHEHLENRLRLETTLLQK LQNVICMGSGAGSPASVSRDVGQPPFRSTDFMAFHQSEHVRMS HLESLIKGLKAKSEAIQKLEQTKQNTISAVGSGQLLPTEHHLQ ELDQKSELSSWRHVTKCTETVAVQSEVVDVVRHWKLEFGBD QOQSLBOLLQRFSSQFYSKDGQTLMLRLDGLILRLVTFHVS TQGLPTSKRAVSVASEAGASGITTAQARA\VNALKLYSQQKTS MVDPAIRSGGGSIILTRCSETYETKALMSLFGIDPLNYPSSPR VVIQPDIPYPCNWAEPGSGOYLVRRLSMIHDAFTLHTPKTL SPTGNISSAPKDEAVYGLENEYQSEGLLGGFTYDQDQESLQMF QALKRPDDTAFOIVELRIFSNMGHPETTCLYRFRVHGEPVK TPNDREKPPPPRPPSSRRASHLQAEITSAASLQDQOTLQSLTTTA
5019	2	1066	

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6020	4953	549	<p> PVTTSALRSMFGLSSQILTNAGQGVIGTLPWVNSASVAAPAPA QSLQVQAVTPOLLNAGQGVIAIASSLPFPVAVRK\ PSTPES ILKSEVQPIKPTPTVPQAVVIASAPAAKPSASAPITPCSET FTVSGLVSKPHTPSLDEGDLNLEIREFAKNFKIRRLSLGLTQT QVQGLAIATEGPAYSQSAICRFEKLITPKSAQKLKPVLEKWL EASLRNQGQQNIMEFVGGEPSSKKRRRTSFTPALEALNAYFE KNPLPTGQETTEIAKELNYOREVVVVRVFCNRRQKLNTSILNMF QTP </p>
6021	4953	549	<p> EATQPEVSTGYNKNKPDITCKPLASTTQYRAVFDGNYTYLFW AHTKPVVTLTYSWEDISHRLDAVNTLLMAERLQTNIEALKSGI QGKIPANQLAELWLKLIIDEVIDTRYTLPIETGKANVTVLDTQI RKLRSSLSQIHEAAVRMRSEATDVKSTLAEIEDWLDKIMQLTE EPQNSMPDIIIMIRGEKRLAYARIPAHQVLYSTSGENASQKYC GKTQITFLKYPQENKNGPKVPVELRVNIWLGSAVEKKFNSFAE GTFTVFAEMYNQALMFGKMGTSGLVGRHKFSVDTGQIKLKRFP FLPPKGMWENGEWIDPERSILTEADAGHTFTFDEVYQNESRYP GGDWKPADDTYTDANGDKAASPSRLCTCPGOWENEDDWSYDINR AVDEKRWYGTITIPDHKPKSWAAEKNYHTERRRLVRKRKED LTQTASSYAGWELDOEGEYASIQWFWFKQSSDTFRRR RWRRKAPSETHGAALFKLEGLAGDTTDEGKSLHKGQKSA TTVGANTPTVSCNFORDYIYHLRCVYQAEMLLALDKDSFSD YAHICFLHRSKTEIITHSTINPTNDQTIIFDEVEIYGPQCTVLO NPPKVIIMELFDNDQGVKDFLGRSIFSPVVKLASEMDITPKLLW HPVMNGDKACGDVLVTAEILRKGDSNLPILPQPRAPLYMYVP QGIRPVVQLTATILAWGLRNMKNFQASITSPLVVECGGERV ESVVINKLKTNPFPSSVLMKVFPLKEELNMPPLVIVKVDHRO FORKPVVQCTIERLDRFCDPYAKGEDIYQKASILSAPPFR DIVIEMETIKPLLASKCLSSMTALSKMASPATVHLTEKEEIV DWKSTYASSGSHKCGQYIQGYSKLKTYNCELENVAEFEGLT DEPSTYKLYGSDSEKEDPQVVEFGKSFYIPLPDEPSPVAPP RQPREPDSVPQCTVITYIVGLEGLOQDNRNOLCDPYKITTLL KEVIE\DRDHYIPNLINPVGRMYELSCYLPQEKDLKISVDYD TFRDEKVGETIIDLENPFLSRFG\SHCC\IPEEYCVSGVNTW RDSLR\PTQ\LLQTVARFKGFQFQPLSLEDGSRIRYVGRDYSLDE FRANKILHQHGAPEERLALHILRTOGLVPEHVEVTRITHSFQF NIS\RYTLRVIIWTKDVLDEKSTIGEEMSDIYKGVIPGNEE NKQTDVHYHSLDGEKNFMRVFTFDYLPALQCLIVAKKEHFW SIDQTEFPIPR\LIQI\W\DNKFS\LDYD\GFPRTLCRHTI HFLQKSPGNC\ROLDMI\PDGLQVNP\KAKTASLFEQKSMKGWV CPTASIDGARVMAGKVEMTLEILNEKAEDEPRAGKGRDEPMMNP KLDLPRWETISLFWTFNCKTFKIVWRFRFQWVIIGLFLILL LFLVAVLLSYLPNYLSKIKVFW </p>

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			<p>DIIVIEDTKFLASKCISMSSTALS KMASPATVHLTKEEIV DWSKFIYASSGHEKCGQYIQGYSKLKIYNCELENVAFEGLT DFDSTFKLYRGKSDENEDPSVVGFEKGSFRIYPLPDDSPVAPP RQFRELPSVPOECTVRIYIVRGLELQPDNNGLCDPYIKITLG KKVIE\DRDHYIPNTLNVPVGRMYELSCYLPQEKDLKISVDYD TPTREKVGETIIDLNPFLSRFG\SHOG\IPEBYCVSGVNTW RDSLR\PTQ\LLQNVARFKGFPQFILSEGGSRIRYGGDRYSIDE FPMKILHQHLAGPEERLALHLRTQGLVPEHVEVTRTLSTFOP NIS\RYILRVILWTKQVILDRKSTGSEMSDIYVKGWIPGNEE NKQKT\WHRYSIDGEGFNWRFVPPFDYLPQELCTVAKGHEW SIDTQEFRIIPR\LIQIWM\DRDKFS\LDLYLGFRTLTCTHT HFIQKSGPGNC/RGLDMIPDLKANPLKAKTASLPEQKSMKGW PCYAKKDGARVMAGKVENTLSTINKEADERPAGKGRDEPNMNP KLDLPNRFPETSLWPTNPKTKMTFVNRFRKWIIGLLPFLILL LFVAVLLYSPLNYLSMKIVKPNV</p>
6022	4953	549	<p>EATQFEVSTIGYGNKEDTTCRPLAS\TQYSRAPVSGNYTYLW AHTKPVVTLISYWDISHRLDANTLLANERQNTINIAKSGI QGKIPANQLAELWLKIDEVIEDTRYTLPTGKANVTVLDTQI RKLKRSLSQCHENAVMRSEANTDKVSLABIEDWDLKMLQTE EPOKSMPTLIIMHROEKRLAYARIPAQVLYTSGENASGKYC GKTKQTFIKPQSGKNGKVPPELVRNWLGLSAVEKKPNFSPAR GTPTVFAEMYNQALQFKWKGTSGLVGRFSEVYQKLLKRE FLPPKQWKGWGIWIPERSLLEADAGHTERTDEVYONESRVP GGMWKAEDTYYDANGDKAASPSELTCPGMEWEDDWSYDINR AVDEKWEYGITIPFHKPKSVVAEKMYTHRRRRIRVRKCKD LTVQASSTAGAMESIQDQEGWYASLKGWFKWQKRSDDTFRF RWRKNMFPSETHGAAAFKLEGAIGADTDEGDEKSLKQKHSA TTVPGANTPIVSNCFERDRIYHLRCYVQARNLLALDKSFSDF YAHICFLHRSKTEIITHSTINPTWDQTLIFDEVETYGEPQTVLQ NFPKVIEMLEINDQVGKDEFLGRSIFSPVVKLNSENDITPKLLW HPMVNDGRACQDVLTAELLISGKDGNSLPLFPQRPANLYMVP QQIRPVQOLTAELLLAMGLENNKKNFONASITSPSLVVEGGGERV ESUVVIMLKKTTFNTPSFLPKMPELKEELMPLVILKIVTQRO FOKPVVQGTCTIERLDRFRCDYAGKEDIVPOLKASLLASPPCR DIIVIEDTKFLASKCISMSSTALS KMASPATVHLTKEEIV DWSKFIYASSGHEKCGQYIQGYSKLKIYNCELENVAFEGLT DFDSTFKLYRGKSDENEDPSVVGFEKGSFRIYPLPDDSPVAPP RQFRELPSVPOECTVRIYIVRGLELQPDNNGLCDPYIKITLG KKVIE\DRDHYIPNTLNVPVGRMYELSCYLPQEKDLKISVDYD TPTREKVGETIIDLNPFLSRFG\SHOG\IPEBYCVSGVNTW RDSLR\PTQ\LLQNVARFKGFPQFILSEGGSRIRYGGDRYSIDE FPMKILHQHLAGPEERLALHLRTQGLVPEHVEVTRTLSTFOP NIS\RYILRVILWTKQVILDRKSTGSEMSDIYVKGWIPGNEE NKQKT\WHRYSIDGEGFNWRFVPPFDYLPQELCTVAKGHEW SIDTQEFRIIPR\LIQIWM\DRDKFS\LDLYLGFRTLTCTHT HFIQKSGPGNC/RGLDMIPDLKANPLKAKTASLPEQKSMKGW PCYAKKDGARVMAGKVENTLSTINKEADERPAGKGRDEPNMNP KLDLPNRFPETSLWPTNPKTKMTFVNRFRKWIIGLLPFLILL LFVAVLLYSPLNYLSMKIVKPNV</p>
6023	102	916	<p>SQELGWFIUNNNLNTTPDRAEQKXITLLCDAKTQSGFLVHHL SFYLKANCKVCPVALIQSFHSYIVGGLGVSI\TNAREGGQVLF LBGL/IVCSGR\VFQQAQKEPHQLQFIREANGLKLP\FEPVREA LKPVDSGEARNTYFVLVDLISVLSLNGAVAVLDEIHYCRAT VCNELKNNMYVLVEDSGDADEENLLNLGSHQSLLIRABGL ATOPCRDWHQQLRILWRRPSQPAVHRDQSTFYQYQIKQDSVSFF AKGSPAVL</p>
6024	3	3260	<p>FISLGFPRFLFLCLOPATASRMKQINELLEMLKRSFWERAE LPAELPORKVAGFPFRVLSFGWDRYVLAIVPTVCKNGCEK RLVTASQSLNEKELCLANWCVGVPVPEGDI\THLEDGCTSDTW IIDKDFGLYLILYPTMLISGTSIASSIFCMRAVLSSETFSSDPA TRQMLIGTVLHEVFOKALNNSFAPEKQBELAQTIQSTIRHLEK</p>

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6025	3977	89	YRLNLSQDEIKQEVEDYLFSPCKVAGDFMHNKSTDFPQNLSL PSDNSKDNSTONIEVVKPMDEESINSRFLGKGLDVTGVVKI HRGYKIKYKIMPLELTKGESNSIWHRSQVLYTLTSGERRADP EAGLLLYLKTGMQYVPVANHDLKRELLKRNQMAFSLPHRISKS ATROKTLQSLASLPQIEEBEKTCKYCSQIGNCALYSRAVEQQMDCS SVPIVMPLKIEEETHLQKTHLEYFSLCLMILTLESQSKDNKRN HQWIMWAPASVEKSGSCIGNLIMHVKIVCDQYILNFPCKCH GAPITNMAQDRVTVSEERLPAISQVYVEINNTVTCTCLD ENHSLVPESTLFRLDQEKKKIDITPLGNLSKAMETVTSKLL DLIIDPRPQFISVLSVLDHDAKTACILKGLNKPGQKWK VLLSKDYTLIVGMPTGKTITCTLVRLIYACQPSVLLTSYTHS AVDNILLKAKTKIGFLRSR\QIQKVHPAQQFTEHRICKSKI KS\LALEELYTSQOLIDATTGCMNHPIFSRKIFDFCIVDEASQ ISQPICLGLIPFSRRFVLVDHQQLPLVLNREARALGMSRSLF KRLBQNSAVVQITVQYRMNSIKNSLKYTRGKLECGSKDVA NAVINLRHFQKVKLELRFYADYSNFMKMGVFEPPNPFVCLNTD KVFAPEQVEKGGVSNVTRAKLIVPLTSIPVYAGCSFSDIGIIAP YRQGLIINDLIARSIGMVEVNTVDKYODRDKSVLVSFVRSN KQCTVCLLDMMWAVATVRAKHLILIGCTPSLNCYPPPELKL LVNHSSEKLLIDLPSREHESLCHLDQPCHE
6026	2674	514	GGFAGQSDHLPFPFLRSDDLITSTLYSVSPDPAFSLKALIA ARYGRAGBGQWGGGAIPIRCLQPPPTSTSTFPPFLPALEQCPQ GLWVGATAVAGQLNPAGLGGPGGSAVALVQWVSYADTELIP AACGATLPALGLRSSAQDPQVATGALGRALSFLBENLRHTYLA GEAPTADLAATVATALLPFRYVDPFARRIWNNTVTRMFTVCVRQ PEFRAVLGEVVLVSAGRPLSHQPGPEAPALPKTAQLKKEAKKR EKLEKQFQKQKIQQQPPPGKPKPKPEKREKRPDGVITYDLPTP PGEKKDVSGFPMDSISPRYVEAJWYVNEQWQCFKPEYGRPNVS AANRFGVFMNCIP\PNVTSGLHGHALTNAIDSLTRHMRMGE TINMPCGDHAGIATQVVEKLMRQGLSRHQLGREAFLEQVYN HKKREKDRIVYKLLKGLSSLDMDRACFTNDPKLSAAVTEAFVR LHEGGIIVRSTRLVNWSCTLNSALSDIEVDKELTGRLLSVYFG YKEVKEFGVLVSFAKYVQSGSDSEEVYVATKTRITMGLQVAVV HPKDTRYQHLKGNVHPLFSLSLPIVDFEVDMDPDTGAVKKT PAHDQNDYEVGQRHGLEATSIMDSRGLINVEPPLFLGPRFEAR KAVLVALKERGLFRGIEDNFMVPLCNRSKDVVEPLLRPCNYVR QGMQAQASAVTGDGLRILPERQRTWHAMNDNIRE\NCFMFG KLWNG\HR\I\PAFYVTVSDPAVFPGEDPDGRYWSGRNEBARE KAAKEFGVSPDKISLQQRDVLDTWFSGLFPLSLILGNPOSED LSVFYPTGLTETHDILFFWVARMVNLKTLGRLPFRFVYLHA IVRDHGRKMSKSLGNVDFLDVITYGISLQGLHNLQLLNENLDS EYERKSGQANDFPAGIPCEGTDAIRGLGLCAYMSQORDINLWV RILQYRHPCKLMRAKELRGLQKGVFPSTQSGGHSSLVDR WTSRLTRAVRLSNQFOAYDFPAVTTAGYSPMLHLCVLEL LKPVNLGVQVAECARQATLY\CLDVGLRLLSBPMFPVTEBFLQ RLPRRPOAPPSLCVTVPPEPSRCSKWDPEABALELALSITRA VRP\LRADYNLHPSGPTCTCLEVAD\EATGALASAVSGVCGG QAQVVVVAEPWGLPA\QGCALASDRCS\HGLQLOQ\LLDP ARELG\KLQ\AKRVRAQ\ROAQ\RLR\ERRA\ASGNPVKVP\LE VQADEAKLQQTAKLRKVDEALFQKML
6026	2674	514	GPITFLKKKAKMKMPGRINHLGLNLTTLVQAVCKKVDCCRLC TCIRPWP\PRSIYNEASTVDCNDGLLTPFARLPANTQILLQ TNNIAKIEYSTDFPNVLTGLDLSQNLSSVNINGKMPQLLSV YLEENKITELEPKLSELSNLQELYINHNLSLSTISPGAPIGLEN LRLKLSNRLQMINSKWFDALPNLELITAKGMPITRIKDMNFK PLINRSLYIAGINLITRIPOALVGLNLSIFDNRRLIYVH VALQKVVNLKPLDINKMIPNIRRGDPNSNHLKELIWNMPL ISLSDAVNLDPLRK-EATNNRVSYIHPNAPFLKLESLAL NSNALSALHYHTESLPNLKEISINSPICDCCVIRKNNMKNIN IRFMEPSLFCVDPPEFGQGNVQVHRFDMMEICLPLIAPSEFP SNLNVBAGSYVSPHCRATA\EPQPIYWTYTSQGLLPT\LTD

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *-Stop Codon, /possible nucleotide deletion, \possible nucleotide insertion)
			KPVHLSBETLDHGVTPKGGGLTYCIATNLWGADLKXVMIKVDG SPFDGNGSLATIKRIDQANSVLWSWKASSKILKSSVWMTAFVK TENSHAAQGARIPSDVKVWHLHLPSTAYKICIDIPITYQKMR KCCVNTVTKGLHPDQKEYSKNMTTTLMAOLGSLGIIVTCLIS CLSPENMCDDGHSVYRNYLKQPTFALGEYPLPINLWSEAGKEKS TSLKVKATVIGLPTNMS
6027	5254	4148	GGRRAPGRPGESIKDEEETVFREVSFSPDPLVPRVYDKDTTK PISFYLSSLEELLANKPRLEDGPNVALEPLACQPLSGQRPRP LLECHMMGGVLDLDFIQGVSVOYPAFYHWQCIDVFFVFSHTV TIPFVQWNTAHRHGVCVLGTFTIWNNGRGLCEAFLAGDERSY QAVADRLVQITRFRFPQWLININSLSLAAGNMPPFLRYLT TQLHRQVPGGLVWYDSVQSGQLKQWDELQHNRYVFDSCDGF FTYNWREHLEHRLMGQAGERRADVYGVDFARGNVVGGRTDT DKVGGGRFRASGIVPFLQPLFMDLPPFASQPRNDSSCSQSG DPFALLNRCPAPAKLCPH
6028	120	3432	KCLLQKGFHGEIEDLQWLTDTTERHLLASKPLGLPETAKEQ LAPFMVEVCAFAPEKETTKSLMKGKQMLARCTKSAETNIDQDI NMLKEKWESVFKLNRAKTKLKEALNLAWEHPSLSAQDFIN WLTUAGETLNASRPSLLDITVLQIDEBKVPANENWREGEII ELDKITGTHLKYPFQKQDVLKLNLLSVQSRMEKVVORLVERGR SLDDARKRAKQFHEAWSKLMENLRESEKSLDGELEIANDPKIK TQLAQHKEFKSLGAKHSVYDTNTRTSLKEKTSLADNKLID DMLSELRLKMDTTCGKSVERQNKLEBA\LLFSQGFDTALQALID WLYRVSPQLAEDQPVHGDIDLWNMLDHNKAFQKELGKRTSSVO ALKRSARELIEGSRDDSSWVKVOMQLSTRWETVCLASISKQTR LEAALROADEPFSVHALLENLARAQTLRFHGLVFDODALRT LDIQHKEPMKKLEEKRAELNKAITMGDITVLAICHDPDSITITKXN ITIRARFEBVLAWAKHQORLASALAGLIAQELLEALLAWLQ WARTLITOKDEVTIPEISVKALIAEGTTFMEEMTRQPDVYDK VTKTYKRAADPSLSQSHLPVLDGKRAKRPFASLLYPGGSQT QIETKNPRVILLWSKQOQWLLALEERREKKNALQLELEERFEA NPFDDIWRKKYMRMNNHKKSRVMDPFRIDKQDQGTITROEFTD GILSKFPTSRLEMSAVADIPDRDGDVYDIYVEFVAAHHPNKDA YKPIITDADKIEDEVTRQVAKCKAKRFQVEQIGDNKYRFPPLGNQ FGDSQQLRLVILRSTVMVRVGGGNMALDEFLVINDPCRAKGR NMELREKFIADGASQGMAAFPRGRRRSRPSRGAASPNRSTSVS SQAQAASPOVPATTTPKILHLTRNYGKPLWTSKMSPTCKAA BCSDPFVPSABGTPIQSKLRLPYLSGKGFSHSGEDSLITTA ARVCTQFADSKITPSRFGSRAGSKAGSRASSRSGSDASDFDISE IGVCSDEVTVQPTHRPTFRAGSRPSTAKPSKIPTPQRKSPASK LDKSKR
6029	1	3533	THPSSSLRGCCTHPNPSFVDSLSYFDCTESVMENSIVLGEEM AQISQMAITGELPAFQCEVIAASNLQSLTRAAQAAYLWLGIFD PISQAGHQGLVDPQPARANQAIOQAQCNVDPGSSPSQVLSAA TIVAKHTSALCNACIRIASSGTANPVAKHPVQSAKVAENSTNI VKTIKALGDPSDENNRNKCRIATAPLEAVENLTAFAENPEFVS IPAQISSESGQAQEPILVSAKPMLESSESLYIHTASRLAHPNDP PTWSVLAGHSHTVSDSKLITSIRDKAPQRECDYSIDGINRC IRIDIEQASLAAVSQSLATRDDISVEALQEGLTISVQRIEHLIDP IATAARGEAAQLHGKGTQLASYFEPLILAAVAGVSKILDHQQM TVLQDTKFLAESALQMLYAJEGGNGPKAQHTHDAITRAAQLMK BAVDDINVTILNRAASEVGLVGGWDAIARAMSKLDEGTPEPEKG TFVDYQTTVVKYSKAIAVTAQEMTKSVTPEELGLASQWISD YGHLPQOQMAAATASPEBIGPQITRVLQDLSEKCIPLVQKAG ALQVCFPDSYTKRHLIECARAVTEKVSLSLSALQAGNKGTQACI TAARVSGILADLDTTIFMFTAGTLAGAENSTFADHRENIKTA KALYEDTKLLVSGASRTDETAQAQSSGSAITITLAEVKLGA SLGSDDEPQOVLNKAIVKAKALSDLSIAETRAKVPDPFPM VLOKGAQVMVNTVTSLLKTVKAVSDEATRTGKALEKRETCIKQ ELTVQSGKDVPEKTSSEESIPMTKQITWATAKAVAAGNSCRCEH DVIATANLSKAVSDMLTACKQASPHPDVSDDEVTRALRFGTCB

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			TLGVLDLSEHLVILQKPTBLKQQLAASFKRAGAVATLIGAA BAMKOTIEWVDPEPTVIAETBLGLAAASIAAAKLEQLKPRAK PKQADETLDFEQILEAAKSLAAATSAVKSASAAOELVAGQK VGSIPANAADDQNSQGLISAPRMVAARTSSLCERANASVQGH SEKLLISAKQVAASATQILVACKVADQDSAMRRLQAQNAV KRASDMLRAQKAAPGKADDDVYTKFVVGQIAQIDAAEEN LKKRELEAPAKKLAIROCCQYKFLPELLEHGG
6030	3	1777	FPGRGSPALQLEVLICGLMGLERANLVATPFYRNVILLEN APWNSLAWTVTSYVPLFKQGGQGTGTFVMSLATFMRVQGF TSRRVELLIFSHLEILSRNHLGRRTEVLRADRGTSVTEGL SYLVFNVPITLADIIIGLIYFSMFMAMGLIVFLCMSLYLTLT IVTWEKTKFRAMTQENATRAVDSLLNFETVKYNAESYE VERYREATIKYQGLEWSSASLVLLNQTQNTVIGLGLAGSLC AYFVTEQKLQVGDYVLPFTYI:QLYPLNPGTYRMIQTNFID MEIMFOLLKK\ETEVDKLPAGAPFRQKGRIFENVHFSYADGR ETLDQVSFTVMHGQTLALVGPSSGAKSTILRLFRFYDSSGCI RIDQGOISQVYQALFFSHWELCPKDTVLFNIDTADNIRYGRVT AGNDVRAAQAQALINDAMAPFGYRVCVGRGLKSGEGRQR VALARTILKAPGILIDRATSALTYSNEAIGASLAKVCANRKT IVVAHRLSTVWADQILVFDGCIVERGRHALLSGGVYADNM QLQGOSETSEDTKPQIMER
6031	160	1694	LRNSENLCSEFVNEAGKSKNSDSEGLEDAVADQALQAKYS DSSSPQVRQPHSSPPEFVTEBILETARGVNTMALAEIVVNG DFQIKPVELPENS LKKRVKBIKHAFNDCLSVQLEDPPAYDHA IKLVGKIKETLLSFLLPQHTLRNQITEVLDDLKQREANGAL DISKLAEIFI:GNMGTLCAPARDESVKLLDKIKELVLFRETFVSU LDIMKVTMMANFAISSIRPMLMQSVVEYERKFPQILRQPNLSD FVTQNLKEASDILMTCKYKHALPVGMAAGSGDMPRISPVAVQN YAYIKLLDWHLRQFPFETVLMQSRFHELQQL\REQLTILGAV LIVTFPMHAPGSISSQADEAKLMKIVKILMTMHLPSFHLKDLV TTIGQKVCLEVSCLGLGSSPFTDKETVLRKQIQAVASPDOP IRRMESRILTFLETYLASGHQKPLPCVPGGLSPVQRELSVAI KFARLVNVMNVFCPPYDAIISKLIVRS
6032	39	2415	AARLCRAQPTKSEAMMIRLDSKMYPTQTRHPAPHPAQPFPTISE SCDRIKEEFQPLQAQYHSLKLECKLASKTEMQRYHVMYEMS YGLNIRMHQKREIVKRLNAICAQVPIFLSHQHQQVQVAERAK QVTMAELNIIQOQQQLAQHLSHGHLVPVPLTPHPSGLQPPAIP PIGSSAGLLALSALGQSHLP\IKDEKHHINDHQDRDRDSIKGS SVSPASFRGAEKHRNSADYSSESKKQKTEEKILAAVYSDGEEK SDNLVVDVSNEDPSSPRGSPHSPRENGLDKTRLLKKDAPISP ASIASSSSTPSSEKSLINEKSTTPVSKSNTPTRTDAPTPGS NFTNLRPTVCKPFGVDPLASSLRTPMANVCPYPTPGIVPHAG MNGELTSPGAYAGLNLNISQSSAAALADAAVSGSPVGGD PHHMEVFAIPFHLITGPGKPAYSFHVSDGQGPVPPFPDGL IGCP\PRIHARQINTLNHGEVVCALVSNPTRHVYTGKGCYVW DISHPGNKS PVSQLOCTINRDNYIRSCRLLEDGRTLVIGGEAS\TL SINDLAAPTRIKAELTSSAPACYALAI SPDSVKCFSCCSGHI AVWDLNHTQILVRFQGHDTGASCI LNDGTLKWTGGLDNVTRS W\DLREGRQLOQHD / RPTSPVPSLGYCP\TEENLAVGMENSN\ V EVLHVTPKDKYGLHLHSCVLSLKAHCKGKVFSTGKUNLLNA W\RTPYG\ASIF\QSKRSSS(VLS\CDI\SVDDKYVTGS\GDK\ RATVYEVLY
6033	39	2415	AARLCRAQPTKSEAMMIRLDSKMYPTQTRHPAPHPAQPFPTISE SCDRIKEEFQPLQAQYHSLKLECKLASKTEMQRYHVMYEMS YGLNIRMHQKREIVKRLNAICNQVIFPLGSEHDCQVQVMAERAK QVTMAELNIIQOQQQLAQHLSHGHLPPVPLTPHPSGLQPPAIP PIGSSAGLLALSALGQSHLP\IKDEKHHINDHQDRDRDSIKGS SVSPASFRGAEKHRNSADYSSESKKQKTEEKILAAVYSDGEEK SDNLVVDVSNEDPSSPRGSPHSPRENGLDKTRLLKKDAPISP ASIASSSSTPSSEKSLINEKSTTPVSKSNTPTRTDAPTPGS NFTGCLRPPVPGKPGVDPLASSLRTPMANVCPYPTPGIVPHAG

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			<p> MNRRLTSPGAAAYAGLHNITSPONSAAAAAAGRAVSPVVGPD PHEHMRVPAIDPNLTGIPGGKPAYSPHVSADQMQPVPPFPD IGGPIPRHARQINTLNHGEVVCVITSNPTRHVITGGKGVKVV DISHPGNKS PVSQDLCLNRDNYIRSCLRLPDGRITLVOGEATL SINDLAAPTTRIKAEITSSAPACYALAIASPDKVCFSOCSGONI AVDLNHQITLVRRQFGQHTDQASCDISNDOTKLTKGGLDNVRS WDLRGKRLQCH/PTTSPVSLGICVPTBKLAVGHNSM\YV EVLHVTKPDYKQLHLHSGVSLKFAHOGKIVVSTGKMLNLA WRTFYG\ASIP\QSKESSS\VLGCDI\SVDDKIVTGS\GDK\ RATVYEV-Y </p>
6034	2683	714	<p> ESGRRRLKRRRSPCPGTAGGPGTINPFGAACPRRRAAAAM EIAPEQAEVPFGADGIEEAPAEAGSPSPASPADGRLKAAAKR VTFPSDEDIVSGAVSPKDPNRAHQVNTVDEIVAGYQACQKLCN RQIPKLLRQLQEPFDLGHRLDCLDIKGEKLDYKTCRALESVFRK LQPKVVDLEQTNLDROGASALFDMIBYVESATHLINSFNKIGT RGWCAAHNRMTSCLQYL\DARNTPLLDHSAAPPVVALRISS LAVLHLENASLGRPIMLLATALKMMNLR:YL\ADNKLNGQL DSAGLQNLKLPKSCGLILDRNRNVLOSGLAYICBGLKQKRGGL YTLVLMMNOLITHTMAFLATPLPHNCSGATNLNHNPIQNGEV RLHNGKLSINRSVRLGLASTKLFCEDVAVASTIASELLRL DLENEIKTGGALMALSLAKVNHSLRLDLDREIKTKAVKSTIE TQKALLARIQMGCKRNLVLARREREKQPPQIASMSPMTTATEP QPDEPAAGVQNGAPSPA=SPDSDSDSDSDGSEEREERGRERT PSGAIDTRDTSSESPQPPPEPPSPGPPPLNGLKPEFALALPEP PPPEVKGSGGLEHLSCKNKEKLELLELLEASQSQETL </p>
6035	19	404	<p> SVTYLGIILHNTIGALPAPVQLISQTPPTS\KQQLSLPGLMGV YFTLWPGFALLTKPLCKLTKENLADAPDKSFHS SFRSLKTA LENASTLALPDSQPF\SLHTARVQGVRLITQGLGFLPV </p>
6036	1745	356	<p> LPDYVKLGRRRGRKMDSEVKGAAITSVSPFGRSPRRRPPKLRQ SRGGQSGVSEKPHLAALLLARGGSGIPLKNTKHLNGVPLIGW VLRAALDGOAPQVWVSTEDILINWANCPRQVTHRESSEVSKD SSTLSDALIEFLAYHNEVDIVGNITQATS PCLHPTDLCKVAENIR EKGVDVSEVVRHQRHNSIQQVREVTPELNLNPAKPRRCD WDGELYENGSEFYFAKRLIENGVLQGGOMAYENRAEHSVDIDV DIDWPIAEQVRLRYGYGFEKELKRIKLVCNIDGCLNTHIYVS GQKEIISDYDKDAIGISLLKSGIARLISERACSKQLSLSLK LDCKMEVSVSDKLAUVDEWNRKMGOLCKEVAVLGNSEVDSERL RVLSGAPADACSTAQKAVGVIKCNQGRQA\IRRFABHIC\LL MEKOLINPMPNRLNVLNIGRK </p>
6037	2936	1919	<p> WTSNHSVLTLLPFLQGNKMLNYSAPSAGYLLPFRKPVGTFA GGGFERHHSVTLFSSKFKNQQLSSSLKGRPAELSSRDSRPRDR PSSSGGERLIPQKQGGGVNSRRYKTELCPFRNAGACKYQ DKQPAKHIEHLSRLIRHPKYTELCKTHTIGFCPYGPRCHPI HNAREPRALAGARDLADPRFLQHSFPAFFSAAATAAATGGL DSPTSTPPILSADDLGSLPTLPDNTNPFAPSSQRLALTA PSMGLPGGSPPTTLFRMSBSPHMDSPPSPQDLSLDSQSGYLS SSSSSHSGSDSPTLNLSRLIPSLRLISDD </p>
6038	1450	426	<p> SSALORFGTKNHTFGVPLPIHREKQILSCNITQLRNSDSGQAAAH YKGTGHAKKLKALEMKNQKSVTAKDSAKITPTSTINTNTS SDKTDTAGTAPASTITTTTVERKSSVMVTSTISKVKSPTTATG NSSCPSTTEEEKAKRL\YCSLCKVAVNSAQLEAHNGTKHK TMLRPNNGSOTI KAPFRAGVKGKGVNKGNTGLQNKTFHCEICD VHNSSTOLQHSISSRIHDKRAAGPKPKPKYSPYNKLQKTAHPL GVLKFSVSGSKPLAPRI LFNPLAAAAAANAANVSSPFLRTAP AATLFTSALPFLALWPAPEPRTAHTPVLFAPY </p>
6039	4073	1000	<p> LDHYEARLTALRDLDFSEEDDDENKRVNREKAAKITELINKL NPLDASKOLAVNKNPFPDDPAARALNPLPDDSGRRPITETASP RKTEDSFYNENYNEPKVCTQTYLNPDEPZAPVTIKDQSPQST KKKNIIPVDMSEKLYADSSKTEERREDSNPFFYEPKSTPPENIL VNPVQLERTERRVKRKPAPVPLSPKQVLANETVSAQDLSTSS </p>

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			PKPSPTSPVLGRKPNASQSLLVNCKEVNKNYKVRKLTINPTTSW RNGLSFCALHHPFPLDIDYKSLNPQDIKENNKAYDGFASIGI SRLLSPDWLLAIPDKLVVVTYKQIRAHFSGQELNVVQIBEN SKSTYKQKQYETDMSVQCKEYFASLSDLKKEPELQQPISGA VDPLSQDSSVFNDSOVGESSEHQTPDDHLSPSTASPTCRITK SDTEPQKSSQSSORTSGSDDPGICSNIDSTQAQVLLGKKRLKA ETLELSDLYSDKKKMSPPFFICEETDEQKLOTLDIGSNLEKKE LBNRSLECRSDPESPIKKTSLSPSTKLGYSYRDLDAKKKHA SLRQTESDPDADRTTLNHADHSSKIVQHRILSRQHELEKARVL LBOARDALAKGNKHNNTAAAPCNRLSDQDDEERRQLRER AROLIAEASRGSGKSELPSYGERAAEKLKESKASGDENDNIEI DTNKEIPEGFVVGDDLTNLNLDLTPQNSKLVDLKLKLLLE VQPVQVANSSSAAQKAVTESSEQDNKSGTBDLRLTERLQKITERF RNPVVYSKSTVTKTQLQSFQYIENRPEMKQRQSIQEDTKGN EKEAATITETQKPSDEVLAKGFKDS/QCYVVGELAALENEQKQ ICTTADAEKRLTYMDTGNRTSEEAHQEWMVKKNALIR RPNQSLLEKEDLBRRYELNRELRMLAIDMQKTAQKRRR QLLLDDELVALVNNKDALVNDLDAQEQAESDEILBRTLQKNG KMAKKEKCVLQ
5040	475	1052	PTALMTAFSCAFFPQFQPSVSGLSQITSLTISNGVAANKIM LSSNQITMVNVSVVNTLYEDIQMVQVPVDSFNSRLCDFPD PIADHISVHEMKQR/TLHCAAGVSASALCLAYLMTKHYMSL LDAHTWTKSCRPITRPNQSGFWEQIHYEFQFGKNTVMVSSPV GMIPDIYKSEVRIMIP
5041	2	3886	TEKDEKTAHNLNVLHFWERLSSTCVAKISPEADVESVLGVS NLLQVLQKPKGSLSKSKKNGKVRFADEILSNNKENEKCVSSEG EKIRCEWELTTEPSLTHNSGILLSPLRKKPLEDLVCKLADISIN VNEKSEQLRFLSTLLDSFSSSVFMILLGDEKQSVIAQKPLE IAKLVQSNPAVQFLYQKLGWLNEDQRDFGLVDILVYALRCC DNDEMRKKVLDLDTKYLKNNSLIKIEKACPSDCHALVTPWL KODILOELVNLADLCNEDLSSVSSESFSERWTLISLVLSQ HYKNDVILGVYVERIIVRLHETLFTYKKLSEASDSVSPTC DVAYNYFSSAKOCLMPSSEDLILLTLPOLCAQSKETHLPDPI CKLNTWLSGVNLAHVQDSSYKESTFLHLBALWJQVQASGL DINSILQVLLSAVDLLNTLLESDSVLMGVYIGSVMPNDESEWK MRQSLPMQNLHRPLLEORLSLNYRCFTDPKQDIXTLPSHLCT SALLSKMVLIALRKEITVLNNELEKIIAELLVSLQWCEELDNP IFLIGFCEILQKQNTIDNLRVLNMSGLLQLEFNRSREHGTLM SLIITAKLILRSISDSDEKPHYKRESEFFLITENLHITQSLCP FLSKEEKKFSQAQIPALLGWTKKDCSTNGGFHAIATPNSCLQ TKSIDDELLHQLIKIIISWKKHEHIDFLFSCNLSASPEVLGV NIEILRFLSLPLKYCSPLASSEWDFMCSMIAMLETTSEGNAL YSTPEVLQFACVSCDLACLSAFASTTLDITGNLFPVNLISEWK RFPSSQTHSLILPILVTGNSKVSISFPNMLKPEMETLTY ISKEQLLSHKLPAKLVADQKTNLPVELQTLNLTALPLFPAE VQYAVYHMLYKMLPELQYDQNLKSYGDEEREPALSPALMS LLSIQEDLLNVLGCI PVGQITVTKPLSEDPCYVILGYLITMKIL LTFKASASQRLALYSMYLRKTKSKINLLYHLFRLMPNPTYAR TAVEVPNKDKPTFTTEBLQLSIRETITMLPYHILHLCASVYHMT KDLPAKVLWNSSEKRVFNIVDRFTSKYVSSVLPQESISSVQT STQLFNGMTVKARATTEVMATYTEDIVIELIQLPSNYPLGS IIVESGKRVQVAVQQRNMMQLSTYLTQNGSIMEGLALWKN VDRKFBGVEDCMICPSVIHGFNYSLPKKACRTCKKHPSA/CLY KWFSTSSNKSTCSLCRETFP
6042	1306	253	MAELAPASPSDIKASVNGETTLCSREQSGCNGNEVQVSLTYP GSPAPHSLSPLQPSGGSLCPSRAH/PDHPOLDTSSAQSGRY GNDAPKGLSLPAPSPPTTHAFLADPVSMAMAYGSSLAAGQKE LVORNDREPTITKIKYPAVDVTVGKGLPPFPLHODWVE CYQDQTPVAPFQVWADPLTPAWATITVTVGLAQLAQDQDS PDLGLQASSALWVLELVAILLLESLYTVVTDIATLITDIAVPL GYKYVGMIQGVLMGLFPGIKIGYVVLGWCVCVAPVPMIRLRLK

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6043	403	599	TIADAAAEQVPRGARNQLRMVLTAVAAQPMLYMLTFHLVR LCLFFPPFCATPVLLFSLISAL/CLSHLSVSSWFCPCQPPPLPC PLPPLNKTKKAGSLSTQSEK
6044	793	412	KLEWNTLISKVILSRVMTASKFGIQGVHSLILGVLGVVY DIDPVYSLSEPSDELAVMDLRAAPVHVVMEDDNLGVHTYL AEQLDSSELQDHP/EQSMDELAQITKLOAPLEN
6045	155	2299	SPLPQVAAVNYLRRLLESENFWANLNGVYTDLCRQPPFPFPFG AHSGRATPGPGTATAFSSQVAPASEAASPQSGSGGQFPSSL SNVAKTTTAAAAATFSEIQQGGSGGAGRGGAARVLLVIDEPT DMAKYFKGKKTGSETDIKVRQAEFSLDNLVAHANGGFSVMEVL RNGVKVVRSLKDPFVLRHQHATSMARNGDYRLSVIGLQYAGIPS VNSLHSVYNFCDKPVFAQMVRHLKHLGTEEFLLDQTFYPSHK ENLSSVTTYTPVVVKNMGHGLTWGKGKVKVDNHQDFQDIASVVALT KTYATARPFDIAKYDVRVKIGQNYKAYNRTSVSGNWKINTGSA MLEQIAMS DRYKLVNDCSRI FGLGLDCAVRALHGKDRDHIIIE VYGSMEPLIGDHQDEKQLIVELVNNMGALPQRQRADSPGR GSHGQTSFSGALPLGRQTSQQPAGFPAGQRPQPGGPPQPGPGP QRCQFPLQCRFPQGGQHLHSLGFPAGSPLPQLRPSFAPSQQP ASQAAPTQGGQGRFPVAGSGFPAARFPSPSPQAGAGPQ ATRTQSVSGPAPKASGAPPGQQRQCFPKQFPQAGTRQASQ AGVPTGTPPTTQQPRPSGPGACRKPOLAKQSDQVFPATA AAGGPPHPPLNKSQSLTNAFNLPEAPPRPSLSQDEWKARTRS LRKSFASLSD
6046	212	1075	EGITGPCERVTFILGRGPFHGATAGHRRFARWAGPESLPPLPR SLIMDSPRAGTHQGLDAETEVGADRCTAYQORQPVQVQK QAPLSPLGAMGGPGPGPCEDPAGAGGAGGSEPLVTVTQCA FTVALRARRGADLSRLALLQALPHQ/AQLGQSLYIAPGEDGH WVPIPEESLQRAWDAACPRGLQLQCRGAGGRPVLYQVWAFH SYSAGGFEDLGFQGDVTVLCEVDQMLEGHCGRIGIFPKCF VVPAGPRMSGAFGRLPSSQQGQF
6047	49	1405	PVLVTLRMRKADTLKPPQLMEVSADIISTCFNHTGELLATGD KGGVVIQREPSKRAHPHSGREIDVYSTQSHRPFDFYLGKLE IEEKIMKLMLPQQAASGLSTNDKTKLWKTREKDRDQYN LDBEESKLDLSTVTSLOVPLKMDLWVSPRAIFANQHTYH INSISVNSDCETVMSADLRLNMLHAIATRQFNTVNDIKPA NMEDLTVITASEFPHHCNLFVYSSKSGSLRLCDMAALCDK HSLFREEDPBNRSFFSEIIS/VSDVVFSSHDVYMLTR/DYL TVKVDL/NMEARPDIETYQVHDYLRSLCSLYENDCIFDFECA WNGSDSVINTGA/YNNPFPMFORNTRVDTL/SASRESSKPRAV LKPRRVCVGGKRRRDDISVDSLDFTKKLHTAWHPANIILAA TNLYLPQDKVNSDMH
6048	1	3194	GIRTPKCDSPSTSDLEMRNGRGCKMRPNSPTPVNISTATASDS KRTNSSKTRAGANSKGRGSGQNSSHRPASSTSDVKAQSPS AKRRMKKSLDMLNSSSDSKGSKVNTNSMSGATPLGPTKV EPTVDRKPSFVLIDCFHPKCNKRYHINLGLYQHARHTDD SKPRADQDSFYKEPFLHADLQSCNKVASVQK/GSLSPARSAT PIKRLVPHSPSSKSFETKOLCKKLSGSGDILGLANDSGSD DQPSVNDSTNDAPSLERKQMKKCKDPSIKPKPTKSLK SARP/APLAIPQOITYTOTATTASPGSSSGLITVAQAMP NSPOLKIQPKPTVMSEFTVNPALPAKMKKKDKKKKSSKE LESPLTPGKVCRAKEGKSPFRESSKNGMKHGLNGSSDHQSR LASIKARADKIYSPIDNAPSPSIGGSSRLNITTPQLPLTHV TQNGARASSVKTNSPAYSDISDAQDRGRGVDSKSDABQLVK EGAKKTLFPQPOKSDSPSYQGFRESYSPSYAQSSPGALNPSSQ AGVESQALTKRDEEPSIEIGKVQNDICEKKPELSSSSSQPSV CQQRPMYMQSLYNYQYVPPVGYSDQSHTHLLSTNTAYROO YBQYKQKQSLBQOQGVDDKAMGLKERRAALKEWKPSPISPP TLTKAPSLTDLVSGGPGKACRPAQPAKSVI/PLKLDSSKLPQ APBGLKVLSDASHISKEASEAKTGAECGRQANDPILMYRCEA KPRMWTYVYPARYSDTKSEDERNWERDRKLEERSRSKDSVVK

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			EDQKESISSDCILPSSSESRIGSKPEPSPVHVVPSSSLTQHQSYPYMGYSYSQGYDNNPSTSNPVMQNVFQSLPSSYSFSPYGVKVSQGGEDADIKASPEVTCSSSESALDILQKQPSHYKSKPTSIDKTSQERDQCGVGVGGGSCSSVGGASQGRSVTKPKTSQRLMSTTHHHHLQVSLLPAYQNLPTAAGLSTTAIVASQGGSTPSLYPPFR
6049	215	1089	AMTVGFDRRVFSIRSGDFQAPFQTSAAHMHFSQSPLESSSATDSYYSPTGGAPHYGCSPTSASYG/KALNPVQYQYGVNGSAGSYAPAYADYSYASSYHQYGGAYNRVPSATNQPEKRVTEPRVMVNGPKVKRKPTIYSSFTLAALQKRFQKQVIALPERAEALASLGLTOTOVKLTFQNKRSKIKKIMONGEMPEHSPSSSDPMACNSPQSPVWEPQSSSRSLSHHPKHAEPPTSNQSPASSYLENSASWYTSAASSINSHLPPGSLQRLALASGLY
6050	566	1718	KGLERTCCAMEESDSKRTTEKENQPRMDPPIGEPG/GSLGNVLPTAMKKKVLMMGKSGSGKTSMSRIIFANYIARDTRRLGATILDRHSGLINSSLSSTYSLVDSVGNTRTFDVHSHVRFGLNVLNMLDCGQDQTFMENYFTSQRDNIIFRNVEVLIVYDFVESRELEKDMHYQSCLEAILQNSPDAKIFCLVHKMDLVQEDQRDLIFKREEDLRRLSRPLRSCSFCRTSINDETLKAMSSIVYQLIPNVQOLEMNLRFABIIIEADVLLFERATFLVISHYQCKEQRDAHRFEKISNIILQFKLSCSKLAASFQSMVEVRNSNFAAFIDIFTSNTYVMVMSDPSIPSAATLINIRNARKHFEKLERVDGPQQLMLR
6051	566	1718	KGLERTCCAMEESDSKRTTEKENQPRMDPPIGEPG/GSLGNVLPTAMKKKVLMMGKSGSGKTSMSRIIFANYIARDTRRLGATILDRHSGLINSSLSSTYSLVDSVGNTRTFDVHSHVRFGLNVLNMLDCGQDQTFMENYFTSQRDNIIFRNVEVLIVYDFVESRELEKDMHYQSCLEAILQNSPDAKIFCLVHKMDLVQEDQRDLIFKREEDLRRLSRPLRSCSFCRTSINDETLKAMSSIVYQLIPNVQOLEMNLRFABIIIEADVLLFERATFLVISHYQCKEQRDAHRFEKISNIILQFKLSCSKLAASFQSMVEVRNSNFAAFIDIFTSNTYVMVMSDPSIPSAATLINIRNARKHFEKLERVDGPQQLMLR
6052	566	1718	KGLERTCCAMEESDSKRTTEKENQPRMDPPIGEPG/GSLGNVLPTAMKKKVLMMGKSGSGKTSMSRIIFANYIARDTRRLGATILDRHSGLINSSLSSTYSLVDSVGNTRTFDVHSHVRFGLNVLNMLDCGQDQTFMENYFTSQRDNIIFRNVEVLIVYDFVESRELEKDMHYQSCLEAILQNSPDAKIFCLVHKMDLVQEDQRDLIFKREEDLRRLSRPLRSCSFCRTSINDETLKAMSSIVYQLIPNVQOLEMNLRFABIIIEADVLLFERATFLVISHYQCKEQRDAHRFEKISNIILQFKLSCSKLAASFQSMVEVRNSNFAAFIDIFTSNTYVMVMSDPSIPSAATLINIRNARKHFEKLERVDGPQQLMLR
6053	201	1704	KGTEMMKSRWQSRRRHGRSHQQNPFRLEDSRSDSRAQAQPHBNCNLPKESIRQKMSRLRLQLQEDRRKIKIARMPNASKLRKQLOFLAVNYCHLAHLRLSCYKVKQVQISNDFPSALASDRNLILATNDRILPTVNDVYQSGSYKINLSQSLATPLKVFMBHENLYPTTKRVNSVCWASIMHDSHILLCLMGLASATQGCATLPAISLPVNSHAGIDRPGWMLCSFPIPAWASCAWASATQANQCS TGLSRVILTNVTVHQRSFQTSNDVLAQQAALMAPLFNOCRSGRIFAIDLRCCNGQKQKATRLFHDSAVTSVRLQDEQVIMASDMAGKIKLWDLRTTKVRQYEGHVNAYLFLVHBSRGILVAVGQDCYTRIWSLHDAELLRTIPSPYPASKADIPSAVFSRLGSGRSGAPGLMAVQGDLYCYSYS
6054	1	1054	PPIARLQFQTSREHMAUSGVHLVRRGSHRIFSPILNHYLHKQSSSQQRNNPFRQRDRISHSVLPAVSSAHPPKHKKPDPYVTTGIVPDWGDSEIVKNEQIQGLHQAQCLARHVLLAGKSLKVDMTTEIDALVHREIISHNAYPSLGYGFPKSVCTSVNNVLCHGIPDSRPLQDQDIINIDVTYVYNGYHDTSETFLVGRVDECGKKLVEVARRCRDEAIIACRAGAPPSVIGNTISHTHQNQFQVCPHPVQHGIGSYVHGHPFIWHLANDSLPMEGNAFTLPIITGSPSPFRVLDANTVVSLL/TSKVSAGPNTVITLSRGAQLTKLPHEA

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6055	421	2364	PPYLLSPFLAWLVGQSDRTETDTSQSGAPPPFOTLQCSALHNDP GCANCSPFCRDSPACQCHTIIVFGNALGVQPPPELSRTALI SSREPPRKKKKSQTETKERERTSFLTQGGKRFELQHLGAGICM TLITITUDSIVSASAVWDHVITANRELAFKAGDVZKVLDSANKDW WWGIDDEBQWFSVFLDVNHEDEVESBGSQVQNGELDPNSD CICLGIPQANQDQRRVITNIMSTERYVITELADLCBGVLYKQC RKRMRMPSDEOLVYFGMIEDIYFQXGVPYDLLEKGVYNDHFL SRI GPCFLHQDGSFIWSEYCNHLDACNLEKLVKDSRYHFY EACRLQCMIDIAIDOFLLTPVQKICVYPLQAEALIKYTAQDH SDRYVAAALAVMRNVQTQINERKRELENIDKIAQNASVLDNE GBDILDRSSELIYTGMBANIYQPVGRNQORVFFLFDHQWVLCK KDLIRDLITYKGRIDMDKYEVVDIEDGRDDFNVSMKQNAFKLH NKETESIHLPFAKLEEKIEMLRAFRERKMWQDEKIGFPEISE NQKROAMTVKVPKQGVNSARSVPSPYPPQDLNHNQYLVF \DQIAGSQVFETEPKRSQSPFWQNPSSLTPFPFK
6056	43	3358	SGRGFVRVRSQLSFSAEQVSQISQLGRGLSSLPPLPPPSRA LAPTRAPDATALIMHEVAVESSELNPSCKINTFRPMSSEFPREFNK YLAMESKGAHRAGLAKVITPKEWFRQCTDDINDLIPAPIQO MYTQSQGLFPQXHQKAMTVKPELHSDSCYCTPFLVDVLL EKYWNLTTPVAPIVGADINGSIYBEGVDENITARLNTVLVDL EECQISIEGVNIPVLYQWMTTFAMHTEDMDLYSINYLHPGSE KSWAIPPEHGRERLQAQGFPPSSQGDALFRLHKMTLISPSV LKKYGIPEDKITQAGEPMITFPYQYHAGVHNGFNCAESTNPAT VRKIDYGVKAKLCTCRKDMVKISMDIVFRKFPDPRYQLWKGQKD IYTIIDHKTPASTPEVKAWLQRRKIKVRKASRFPQCARSTRKRP KADDEEVSVDVDAEVPNDPVDLKVSEKSEAAVKLENTEBA SSEBESSASRMQVBQNLSDHILKSGNSCLSTSVDLTKTEDDRA YATSVPSISSEADDSIPLSTOYKFKPSKSDPELSWPKSPESCS SVARSVGLTPORESINVSNGWLEPGELIPAVPSGERNSFPKVP IABGEIKTSKSWRLPSRPFARSFMTLVQQAQSDDELPEVLSI TEVEETESWAKPLIHLWQTKPNTFAAEQYKATVARKPHCAI CTLMLYHKPDSBRENDARNETKLDDEVITSEGKTKPLIPEMCF IYSEENI EYSPNPAFL EEDQTSLLISCAKCCVRVHNSCYGIPSH EICDQWLCAKCKRNATVABCCCLNLSGALKCTKKNKWAHVMA VAVPVRFTNVPERTQIDVGRILPLQLKLCIKTCRHRVKRVSGA CICQS YORCPASPHVTCAPAAVLMEPDWPFVNNITCFRHKV NPNVKS KACEKVISVGQVITIKHNRTRYYS CRVNAVTSCTFYF MPDQDSPSRDTFPEDIUSRDCLKGPBABOEYVQVKNPDGKLYG AFKPSQSNLAAMYQVEFEDGSLAMKREDIYTLDEELPKRVKARF VSAKCHLTQCVNLS SSPHSVQAQQTLYLFGWINSKSGQCNITF LSGTY
6057	1	853	FVARKLRQRECOCLPRKKEKORARQRRRRKQGLATCCPFLVQ GSLVITCGQDDCPGSEDPERDDHGGPDRPVPRKRGHSFSS RPMANS TLGLLAPPGRAWGLIGQPPRNPNISPPPSAKVKKIFG WGFVYSNIXTVALNLLVTGKIVDHGNGTFSVHFQHNATQOQNIS ISLVPPSKAVEFHQBOQIFIRAKASKIFNCRMDNEKVEVRRGR TSLFTHDPAKICSRDHAQSSATNSCSQPFKVCYIAFYSTDTR LVQKVCYDYNHSHDTPYPSG
6058	1	986	HPILPSASLGLPSVSLGVSLCVRSALEAVVPMIPKERRARVGSF SGDAASSTPPSTRFPVATYLVPEVGRSRAFLTGLRSKGRF VLDAQSEATHVMEKTSARRAVSWQERRMAAAPPCTPPALLD ISWLTESLGAGQVPVFECHRLLEVAGPSKGPLSPAMWFAAYACR PTPLTHMPTGSEALFLAEEAGFGESEGRLLIFCRAASVILKAL PSVTLVLSQGLFHPHBEISSRVVQELLEHGVCEVERVRSR/ RLEFDIYGVGVKADRYARLRLTLDLREQFGKLTQQQKAGSP SREAGFWASLNTCIDPASIS?
6059	2	3650	QDFESLADLTIRHAHCCTPGQDDDDQLSWASSPSSSDVASTPT QMTGKXCDGLIGREEGGTGLPYPCQFCDSKSLPSLYLKHQTH SDKLFPKCTYCSRLFKHKHSRDRHLKLTGQKKYKHECBASFS RSDRLKTHLKHSSSEKPKCTVCKRGPSSSTSIQSHMQAHKXK EHLAXSEKRAKDDFMCDYCRDTFSQTELEKHVLTTHQPLSEK

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			ADLQICHPVVDENTLLAHTHQAHANQKHCPCMCPE\QFSSV EGVYCHLDSHRQPDSSNHSVSPDVLGVSASMSAATPDSSASV ERGSTDSTLKLARGQKIMRDGQGWTKVYSCFYCSKRDPNLS AVLSIHKLTTHADKQPSHSTCQICLDSMPTLYLNNEHVRKLNHN HAYFVQWQNTSAPHNCPCFEMPDINSIQEHTRVSHGCFANAF SDGNWAFPCQCSHGLTSSSTHTQ\Q\ARCSVGSALSSSF VQPTQSFMVYSCFYCTNSPIPSILKLTCHKKNHNTPLANS KKSKAQSPVSSDVEVSSPKRQRI-SASNSISNGEYPCNGCDLK FNFESFQTHLKLHLELLLRKQACPCQCKEDFDSQESLLQLTVH YMTTSTHYVCESCDQFSSVDD\LQKH\LLMDPHPLCCTHCT\VL CQEVFDS\KVS\I\QVHLAVKHSNEKIMYRCTACTMDFREKADLQ VHVKSHLGNPAKAHECIFOGETFSTFTEVLQCHITTHSKYCNCK FCSKAPHAIILLEKHLREKHCVFDAATENGTAANGVFNATKKA PADLQGMLLKNPEAFNSHEASDDVDASEPNYGDICGAAATME VLQNHRLRDNHNRKPEDDGSRKKAEPFGSKHKNVCSRTFFSE NGLREHLQTHRPAKHYMPCICGERFSPILLTLTEKVVTHSKSLD TGTCLICMPLQSEEPFHCQMHDPDLSLQPRCVCMQVTT STFLKILKGTTHMQLKNGSSAASPFMOGLKLYLTKLCKEPR SKQDVLKIDVNGLPYGLCAGCNARSANQVGGGLAPFEADRPCA GLRCPESVVFESAEDELSEHMQVDHRLDTPTFSRPGKQTSPV PRKTYQTCIKQMTFENEREIQIHVNHMIEGINHECKLNQNM FDSPAKLLCHLHIESFEGMGGTFFKPCVCTFVQANKLQOHIFA VHGQDKIYDCSQCPCKFFPQTQLQHTMSQHAQ
6060	2145	202	SVETVGNKLEVNHSGLKALCKCSLPSRLLPLGENLPLDRGFR KFRSRGSRERDNMLHLSCLAFPSPLAMIAVLGLSAPSASS DISASRPNILLMADLQIGDGCYGNNTMTPTNDRLABDGVK LQCHISAASLCTFSRAAPLTGRYFVRSQMVSSIGYRVLQWTGAS GCHPTHTTAKILLEKGYATGLIGKQWHLGLNCSASDCHHPL HKGDEPFYQWPSLMDCARWILSEKRVNLECKINLPQVLAIV ALTVAGKLTILTPVSWKPVINSAISAVLLSIVTQVALVIA DCFLMNHNTITQCMCFORTPTLLQEVASFLKRNKKGPTLLPV SFLVHIFLITMENFLGKSLHGLYQDNVKECDMMVGRILDTLDV EGLSNSLTLYFTSDHSGSLBNLQNTQYGGMNGIYGGKMGOGN EGGIRVPGIFRWPGLVLAGRVIGEPTSLMDVETTVVRLAGSEVP QDRVIDGDLLELLLQTAQSDHEFLNHYCERFLHAARWHQDR GTWVKHVFVETVQPEGAGACYGKVCPCFGEKVVHDEPILLDF LSRDPSETHITLTPASEPVFYQWNR\VOQAVNHEQRTLSPVPLQ LDRLGNINRFLQPCCGPFFLCMLRDEDPQ
6061	110	1330	MNTHKRTKTRINTFENRMLMDGMFAVRVKTLELSSQGSFN VNFVPMASVAPLLANNKGEPEFEDLSVDHQQTSPVLSLBNK ARTSPFVAVSSVSNVNLASGSESTTSSSSSERLASSFTVTS VSASSSSTVLTGCPILVASASVQVQQLHILHFPFSPFNILQ SNKLGSEVHRIPVVQSVVPVVTAVRSGNVNITVLELDEDRG HGKQMDPRLGSLPROSKSLSDDDDLNVLTDSVNETGSTALISA RAVORVHPSVPSVRVGRNMNMNKKFPCSISPPSISSTRQRTVIN PPDSRKTATYSTDCP\BGLQKLYKSSSPGVRHRTHTGEKPY KCTWRGCTWKPARSDELTRHYRKHTGVKPKCADCRFSRSDH LALHRRRMLV
6062	71	1079	ETMARKNGPENCEDCHILNABAPSKSKCKSKIKGLVFGILALT LIVLPWGSKHPVPRVPKAYDNEHTFTYSGEKKKIYMEIDPVT TRIFRSGNGTDETLVHDFKNGYTYGIYFVGLQKCFIKTQIKVIP EPSEPEEEDENEEITTTFFEQSVINVPAPKPIENRDFLKNKSI LEICDNVTMY\INPTL\TSOTFAQLHNNFAPILVLSLQDFE EGBELHFPANRKKLEBNEQVTVQVYVYKTRHARQASBESLP INDYTNKIEFDPMDERGYCCYCRGKNRYCRVCEPLLYGYP YPYCYQGGRVICRVIMPCCMWVARMRLRV
6063	71	1079	ETMARKNGPENCEDCHILNABAPSKSKCKSKIKGLVFGILALT LIVLPWGSKHPVPRVPKAYDNEHTFTYSGEKKKIYMEIDPVT TRIFRSGNGTDETLVHDFKNGYTYGIYFVGLQKCFIKTQIKVIP EPSEPEEEDENEEITTTFFEQSVINVPAPKPIENRDFLKNKSI LEICDNVTMY\INPTL\TSOTFAQLHNNFAPILVLSLQDFE

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			EBGSLHFPANRKGIGQNEQWVPQVVKETRRHARQASBEELP INDYTENCLEIFDPMLEDERGYCCILYGRGRNYCRVRCEPLLGTYYP YPYCGGRVICKVIMPCNWWARMLGRV
6064	913	311	NLPQSLPRITESHPPVYLEHATDELVAWVALSDGVKLEFPHG TTSCKRVVYVDGKEIRKEWFWLQKGFETFYGAARKATATINID ATSGFAYETTLTEINGSKLKYMDRDKTITNTWLRDGENPRIV LEKDAMDVWNGKMLTAGFVDDGTETHPSIGTHACYIKAV\
6065	1153	641	SSG\KRGKGI IHTLVDNREIPEIAS MSVRVARVAVWVGLGASYRRGASSFPVPPGAGGVALLRDTAG AFKEAPWAATERMPGQSVLLFPQGSGVQVMGRGLLNYPRVR ELYAAARRVLGYDLELSLHGPPQETLDRTHVQCPAIFVASLAIV EKLHHLQPSVINCVAAGFSVGRFPAALVAFAGMEFAGS
6066	68	3470	VKENPATRKRPMRYGHTGHTGVCFDSDGSEFVTCGSDGVDVRI EDLDDDDPKFINVGEKAYSALKSGKLVTAVSNTTIQVHTFPBG VPDGLITRTFINANHVFPNGDGLKANGSDPLVKIVDVMDS QNTTRFGHDAVLSLSFDPKDI FLASACDGSVRVWQISDOTCA LSWELLQKNDVIMAKSICRLAQPKSKILLAPVEKSVKLYRR ESWSHGFLSDNFTSOTLNTWSPGQYLAAGSINGELIVWNV ETKDMERVKHEKGYAICGLAWHPTGSEYTDASNGNGLLENV CPSPGKTSKSSKSSRVEKDYNLDPDGDVSNAGFLANDVAEIP SPSKGIINDEDDDLMMASGRFRQRSHLEDDENEVDVIMGLT GSSLLKEBEEDQGBS IHNPLVTISORPFYDPMPTPRQXPPQS GSTPLHLTHRFMVNSIGI IRCYNDEQNAIDVPHOTSIHHAT HLSNTLNYTIADLSHEATLLACESTDELAKHLCHFSSWDSSK BNIDLPCONEDIEALCLGGWAAATSAALLRLFTIGGVQKEVF SLAGPVSVMAGHGQLEFIVYHRTGFDGQCLGVLLELQKKKK QILHGDFPLPLTRKSYLANIGFSABGTPCYVDSBGIVRMNLRLG NTWTFICNTRHCKGKS DHYWVVG IHNENPQCLRCICPKGSRFP TLPRPAVALLSKLPYCQIATEKGQMEQFWRSVIFHNHLDYLA KNGYVEESTKQATKEQBELLMMLALSCKLEREPRCVELADL MTOMAVNLAKIYASRSKLLAKLELAVTEARLTAATQVEE EEREDPRKKNAGYSMTATEWSQFRERIVTEADESGADDE KPEIHKPQONSFSKSTNSDVSASGAVTFSSQGRVTPKVSAS SKEPAMNSARSNTILNDMGKSKKSAALSTTNNKSPILKP LIPKPKPKQASAASTYQKRNSTNKEVEEKENLQVLSSETPAI CPPTQNTQRPKTGFQWLEMRNLSNDNDFPDEADITKEGM IRFRVLSTEERKVNANKAGETASEGTEAKRKRVDDESDETEN QBRKAKENLNLKKQKLPDLPSTNKLASAPAFQE
6067	858	321	LPWQLGVLSSRGHMVTVGLSRLTAQIKALLQDQRKRVHYLE PDGKEMABEYDEKTESELLVRKVRKSLGAMGQWLEVGDPAPL GAGMLGPBELIKESNANPIMRKDTMSFQNRIRNLFYKDVYSV SDVQKRCIIVRTTNKKYKFFSIDPDLRHLPLDLDLSFA\T PAP
6068	13	1730	GSQNALANRKPATAPVVPVQKDGKSPARCKNLSDSGEEP RCFAZAPHHGTCHPSAGHSALEFPAPAGASATIPPPPAPEAQL PPFPRELAGRSAGGSSPEGGESIDSEDCYCPFKRRTSLSLT FPPSKQSRKSSSGELKPTTLHQQAASAGLPSQKFKQKQSVLR PAVLQAPQKALQSTVPSGNTGVSLPADCTGAVPASPDTAAN RSPSEADDEVCALEKEKPPQKNSSNASFEACEKDPATQCAV PGNLRDRVKLLINESVDENMNAGHPSADTPTATNYFLQYISS SLENTNSADASSNKFVQGNMSRVLSPKLENVSSDANKRENA AASGSGESSSQEATPEKSLAKSAAYATKATARKCLLEKVEVIT GEARSNVLQMCKLFPVDKTSQSNVERGRGLLRINDMASTDG TLQSRISDAGPGRSLRLILANTKLMAQWIDKASEK\SRITAM DNEDQGVKVLISASSKDTGVYAALHHRILALRSRVEQBEAK MPAPEPGAAPSNEEDSDDDVDVLAPSATAGAGDSBGQQTTS T
6069	583	27	PIRPGQAGSSSAMAQRLGKRVLSKLQSFERARGPGGSPGGLQK RIEAVTVKDRKLQRLDVRKRLDGLKSELYRGMEADMPDEIN IDELLESEERSNKKTQGLLSCGKQVEDPIQELAKLQGLHR

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			Q(PGLRQSFSP(DGQPSAFFQPGARTASPLTLLALFPGFPER RPALLCVLSCE
6070	478	858	IRVTVDGEFLHYIFPLQFLDSFW/RFTETHRGRF(QVTLTAE TDCRYVSWRRKLYLLFAQRHYISRLTSVLIGSDIADKLYALND RVYIGKRYHYDILRPNFYQMSPEIRUSPLTQHFNSSRYW
6071	2	1654	HEARTKGMALAREVRLTSLVTLKLLAFREGLTVRSPEPLPV VRIFVALQRLBORGRRLPPEVLVVRPGLVLVARRPELNPQ ARLTLGWERAPLASQGWKORARHDSISERQAQBPAPVRLS SKGSPADLGAANKPRVLHAIQEAAPFTVQPTTVTQSTPSLLR GRHVCAAEETSGSKTLYLLPQLQLQHPSLDPLPAPRGL VLVPSRELAQQVRAVAQFLGRSLGLVDRLEGHGMRRIRLQLS RQPSADVLVATPGALWKALKSRLLISLEQLSFLVLEADTLDES FLELDVYILEKSHIAEGPADLEDFPNPQQLVLVVGATTFPEVGQ LLNKVASPDVATTITSSKLHCIMPHVKQTLRLKAGDKVAELVH LLKHDRABRATPGSGLVLFVFNSSSTVNMVLGYLDDHKIQHLRL QCGPMALMRVGIQSPQKSSRDLLCTDIASRGDSTGVLELVN YDFPPTLDQYIHRAGRVGRVSGVPTVTSFVTHPMDVSLVQKI ELAAAREKSLPGLASSVKEPLPQAT
6072	1	742	KBERTEHPTTSGLLPKSPFPLVSSSRMLVKRGELTAIVEDT VLFSRRTSKQVYFPLFMDVLLITKVKESVNVVDVLRDQLL VESCDNEILNSPGKMSMTLYGRQSGASHLFTLLTVLSNANKE VEMLLGAETSGERARWITALGSSGKPPADRTSLTQVIEVRSRT AKQFDELSLQVADVLI(YORVSDGHWYEGERLDRGGRKWPFME CAKEITQCATIDKNVEMRGLLGLETV
6073	620	860	PCRRGLARLPSRRFG/SILVHCAGVGRSATLVLAYLMYHHLA LVEAIKVKDHRGIIIPNKGFLRQLALDRRLRQGLEA
6074	168	1110	PGAKCNATLCCPDSMPCHNQVNSASTPSPEDIRPGDILIDHA GQNRASRAKVIILLTGYAHSSLPAMLDGAGCGSSINSSENGGGG DSSSYDAPAGNSFLEDCELSRQIGAKLLPMNDQIRELOTJIR DKTASRGDFMPSADRLRLVVEEGLNQLPYKBCMTTPTGYKYE GVKPEHGNCGVSIHRSGEAMEQGLRDCRSIRIGKLIQSDDET QARVYAKFPDPTVYRKVLAMPLQGTANTVIEAVKVLIEHG VQPSVILLSLSPSTPHASKSTIQEPFSTITLTETVRVAPVPHFG QKYFGTD
6075	320	1091	PPTCQFQVEHH(VGYVFIQNKTLFESRCHQCVYSSSSHLLOT KLGPEIERAECTIRINDAFTTGYSDGVNKTITRYVAHSSVFR LRRPQEFVNRTETVFIWFGPPSKMQKFGQGLVRVIRAGLVFP NMEAYAVSPGRMRQFDLLFRGETGKREKSHSLSTGWPTMVA VELCDHVHVYGMVPPNYCSORPELRPMPIHYTFPGDECVYI QNSHSRKNHHRFITEKRVFSSWALQVGTTFSPSPWT
6076	1721	107	HPSPEAPRVQHLTMDCTNRILLPLVAKRGTTHAQVLQVSGAEV KPGASVKVYCKVSGYTLTSLSMHWRVQAGKOLEWNGAFDPED GETIYAKRFQGRVTMTEDTSDTAYMGLSSGSEDATVYICATD RQDFADIRQGTMTVYSSAPTKADVPFPIISGCRHPKINSFVY LACLTISYTHFTVYVTVWGTGTSQAQCTFSTGDRVYTWES SOLSTPLQWROCBKVCVQVHTASKKKEPMPSEKVAQASSV PTAQPAEGSLAKATAPATTNTNGKGEKKKKKKKEQSEERE TKTSECPSHITQPLGVVILLTAPVADLWIRDFATTCFVGVSGSLD AHLTNRVAGKVPTGGVEEGLERHNSGSOHSRILTPRLSNNA GTSVYTCILNHPSLPQRLMALREPAQAQVKLSLNLLASSDFFE A(ASMLLCEVSGSPSPNILLMWLEDHGEVNTSGFAPAPLSPK) RSTTFWA(WSVLRVAPPSPQAPATTTCVVSIEDSRLLNAGRSIL BVSVYTDHGPBK
6077	3687	1268	LLPDMNLQPIFWIGLISSVCCVFAOTDNRDLKANAKSCGECTQ AGPNCGMCTNSTPLQSGMPTSCRDDLEALKKKGCPDDIENR GSKDKIKGNVNTNRSGTARKLPEDITQIQPQQLVLRISGEP QFTFLKFRADFP(ILDLYIA)LSYMSNDLDEANVSLGDLN EMERTTSDFTLGRSGFVETKMWYISSTPAKLNKCTSQNCIS PYSYKYNLSLTKNGRVNLSLWKGKRLSGNLSPEGSDALNOVA VCGSLIGWRNVTRLVPSDNGEHPADGKLGGLVLENDGQCHL

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6078	1425	180	<p>ENWHTSHYIDPSTIAHLQKLSENNIGTTFVATEEPQPVYKE LKWLTPKSAVOTLSANSSRVQLIIDATYSSLSSEVILENKLSE QHTTLCVIFCSIEDAYAQERDAPSLPQSFETWRGDAISKLDTL QVITISYQSY\CHNGVWGTENGRKCSNLSIGDEQFESITISNK CPKSDSDSFKIRPLGSTEVEVILQYICKCKCOSGSDPSPKCH EGNGTFECQACRCNEGRVGRNICECSTDEVNSRDIGCTPARKENQ FQKASNHNHRVPSAQQCVCRRDNTNRIYSQKFCEDNFNCDRS NGLICGGNGVCKCRVCECNFMYTGSACDCSLSTCEASNGQIC NGRGICECGVCKCTDPKFGQCTCEMCQCTCLVCAEHEKCVQCRA FNKGEKKDTCTQECSYFNITKVESRDKLPPQVOPDPVSHCKEKD VDDCWYPTYSVNGNNEVMHVVENPECPGTGPIIPVAGVVAG IVLIGLALLLWKLMLIHDRREPAKFEKKNNAKNDTGNPIY KSAVITVNPKEYEGK</p>
6079	1586	141	<p>ETEDVMELLLEDLTCTPCCSLFDDPRVLPCSHNPKCKLESTLE GSRVNRSLRVPVFKCTCRKGTFSYAEILPLQ/NYSLGKIVERKY NKIKISIPNMPVCKHGLQGLMIA\CL\TDMQLDL/CGI\ATRA QHTTLCVIFCSIEDAYAQERDAPSLPQSFETWRGDAISKLDTL QVITISYQSY\CHNGVWGTENGRKCSNLSIGDEQFESITISNK CPKSDSDSFKIRPLGSTEVEVILQYICKCKCOSGSDPSPKCH LWVQWYDPRINKLNTIQQORAFNLAHAFKDVSEPIVPLQOM QEFREKIKVISTPLPPSNIPASPLMRNFUTSQMEDIKLVDDVK LSLPQDTGTFTISKIPMSFYKLLFLLILLGLVIVFGPTFLWLSL FDDLATWKGCLSNFSSYLTKTADTIBQSVFYVEQVTDGFFINE RFNHTLVVLNNVAEFCVKYLL</p>
6080	1	1199	<p>ATARDLGCARRIDRVNVESTPSRGLNRVHLQCRNLQBFILQGLSP GVLDRLYGHPTCLAVFRELPSIAKNWVNRNLFLEQPLPOAAVA LWVKKEFSKAQKESTGLLSGLRIWHTQLLPGQLGLILNPIPRO NLRITALLOGGKANSDDTSLQGLPKHARDVPSLDKYAERNEVVEL HFWVGPSAARVSDQILAQILLQAGLAKMSTEPGEDPCITSAGQVFL LDTTPAQWLWFMILQYIQTAAQSGKNDLVEILSFLPQLSFTLGKD YSEVGSMSLLNFTLQHLRRGLVFPQRKRSRTYPT/RAIALNL SSGVSGAGCTVWQGTIVAVENRILYAYESELALQALDALFSB MLYFPA\MMVY\ARVTR\ESVQCALASGITAQQI\HFLR\RAHP VMLKQTPVLOPTITQIRINELERDLRTTGVLYIQFLSGVDF ELL\LAHAPKLGVLVFE/NTPAKRLMVVTAGHSVYKPAKXQK HSS</p>
6081	3	865	<p>YETIDHVOEFAMAAQAGVSRQAAQGLAESQNALKYLQDQFK TLRQCLDSGLVLPKDPEFAPCPSLGALYKDLQPSGPTQGTIKNR PTELCPSPQFIVGGATRTDICGGIGDCWLLAAIASLTINELL YRVVPDRQDFQENYAGIPIHQPLCPSPF\FWQVGEWVEVVIDR LPTKNGQLFLHSBQGNFWSALLLEKAYKLGCTBALAGGSTV EGFEDFTOGISEFYDLKKPPANLYOTIRKALCAGSLGCSIDVY SAAEABAITSQKLVKSHAYSITGVBEVNFQGHPEKILRLNPNW EVSNGANSDDAPENHIDPRKSELDKRVDEGEFWMSLSDPFR QSKLEICNLSPDSLSSEVHKWNLVFNHSHWTRGSTATGCCNY ZGSS</p>
6082	283	1288	<p>EMLPDLLDLFWA/GALAQDARRERLEHPESTVQSGLCIFVHC SVFYLEYGNKUSTPAYGHNFPEGVSDQETPVATNNSYQVQKE TQGRPHLLQDPSRNNCSLSIRDARRRDNQSYFWVARGRTKFSY KYSPLSVYTALTRHDPIILPEFLKSHGPSNLTCSPVWCRQGT PPIFSMMASAPTSIGPRTLHSSVLTIIPRPQDHGTMLICQVTFP QAVTITERTIQLSVSKSGTVEEVVLVAGVVAVKILLCLCLLI ILSFHKKAVRAVEVENVYVMG</p>
6083	1865	309	<p>RARSPOPTQTRTAPGLAAGLQAQALRELLLSRFPASARMDGLD PEVSGQPEEASPEQPEASAEEREEDQGEKEAAJAA\Y\LDRE LPEFLA/LRVLAALPRHR/LVQACR/LVLCRKEKLVGDGAPLNL LKCOQBLVPEGVEEERDHWQFYPFLSKRRNLLRNPGESDIL EGMCDVHEGSDGKRVLEELFGDSGVGFTEKDSVVKYPASSFENCR KQVYIDVQASVYEEELDTTPAIVKVDNYSGRSDAGCYXELTV KLSHREVLAEFSQGVAVPQSDSGGNGWELSHSTFTDVGPGVK FVREHGGQDSVYKQWGAARVTRNSVWVE</p>
6083	1865	309	<p>KWCAERRLGLNSLADELADLEFAAEEREGSGYGBREERPAIK</p>

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			DVQERTOLDLSGDSVKTIAKLMDKMPFIEIMKIEEYSKQAKA SEVMGPVEAAPEYRIVDANNLTVEIENELNIHKKFIRDKYSKR FFELESVLPNALDYIRTVKELGNSLCKCKNENLQQLINATIM VVSVTASTTQGOOLSEELERLEACDMALDEINASKHRIYEVVE SRKSFAPNLSIIIGASTAAKIMVAGGLTNLSKMPACNIMLLG AQRKTLGSPSSVLPHTGTYHSDIVOSIPEIPFFSVAPVDL RREARLVAARCTLAARVDSPIHSTEGKVYELKDEIBETAKW QEPPIPVQVKPLPAFLDQGRKRGGRVRMKERLGLTERKQ ANRMSFGEIEEDAYQEDLGFSLHGLKSGSGRVRQTCVNEATKA RISKTLQRTLQKQSVVYGGKSTIDRSSGTASSVAFPTLQGLEI VNPQAAEKVAAENQKYPSSMAEFLVKGKSGLMST
6084	1865	309	KQWCAERRGLGMSLADELLADLEAAEIEEGSGSYGEEESTPATE DVQERTOLDLSGDSVETIAKLMDKMPFIEIMKIEEYSKQAKA SEVMGPVEAAPEYRIVDANNLTVEIENELNIHKKFIRDKYSKR FFELESVLPNALDYIRTVKELGNSLCKCKNENLQQLINATIM VVSVTASTTQGOOLSEELERLEACDMALDEINASKHRIYEVVE SRKSFAPNLSIIIGASTAAKIMVAGGLTNLSKMPACNIMLLG AQRKTLGSPSSVLPHTGTYHSDIVOSIPEIPFFSVAPVDL RREARLVAARCTLAARVDSPIHSTEGKVYELKDEIBETAKW QEPPIPVQVKPLPAFLDQGRKRGGRVRMKERLGLTERKQ ANRMSFGEIEEDAYQEDLGFSLHGLKSGSGRVRQTCVNEATKA RISKTLQRTLQKQSVVYGGKSTIDRSSGTASSVAFPTLQGLEI VNPQAAEKVAAENQKYPSSMAEFLVKGKSGLMST
6095	2	1456	SGPSTQGNRAVRGIRSLGGKRNPFVITLLPQVSSSEVRVRRARV GVARVPCGNPKWSPATQVPR/VPAQVLPGRGPPLEBGEELVM DEEAYLYHRAQTGAFCLSPDIKVDHLGDNRTPLTLVLCAGT QASSAQSNRLNMLMHNHGHGTPPPSBSGSDSEEDREDEDEER KQLELAVMHHYGGINRVEVWSLGEFVAGVNSEKQVVEPALR RLLVVEEPQALAFIRDBQAMFIPSFAGHMGEGFALDMSPR VTGRLLTDECCXNHMTFPDQSWNDQRPFFVGHTRSVEDLQW SPTEWTVFASCSADASIRIMDTRAPSSACMLTTATADQDVN ISWSRREPFLSGGGDQALKIINDLRQPFSSSVATFPKHVAPVT SVEMHFPDQSGVFAASGADHQITQMDLG/IVERDPEAGDVEADPG LADLPQQLLFVHQGETELKELHMHQPCGLLVSTALSGPTIFRT ISV
6086	2419	1357	GAATGSGGANNLLPCNPHONGLLYAGPNQDRHGFACGSENGFRV YNTDPLKSKKEQFLEGGVGHVEMLFRCNYLALVGGGKKPKYP NKMVWDDLLKKTVEIEFSTEVKAVKLRRDKVIVVLDMSIKV PTFTHNPAGLHVFE/TCYNPKGLCVLCPNSNLSLLAPPGTHTG HVQLVDLASTEKPPVDIPAHBEVLSCLANLQGTIRIATSEKGT LIRIFDTSGHLIQLRRGSGQANLYCINFQDQASLICVSSDHG TVHIFARDPKKMKSSLSASFLPKYFSSKWSFKQVPSGSGP CTCAFGTEPNAVIAICADGSGYKFLPNPGGICIRDVQACLEHT DDKL
6087	476	1877	QNSQRTGLPTTIFSRSPPLLTGSDLCENMPCCTCVRNWRQNTIF LVAVTVLSIVVAVPLCVNWLQKLVEIHTKAMFAGIPLLLTI PISLWVLQHLVHYTOPELOKPIIRILMMVPIYSIDSWALKYVP GIATVDTCRSEYRAZYIYNFNGPLTNVLTNRKPLVLILEAKD QOKHFFPLCCCPFMAGEVILFRCKLGVLOQTVVRPPTTIVALI CELLGIDYEGNFSFNWATYLVIIINMSQLFAMYCLLFLYKVLK BELSPIQPVGKPLCVKIVVPSFQWQVIALLVKGVISEKHTW ENQTVKAVATGLQDFICIEIMFLAALAHYVTFSPKPYQABE GSQFSDFLAMMDVEDIDDISSEQRVHVGRTVRGHRKPLFPEDD QDNEHSLSSSSQDAISASSPFSFWGHYQGFQHTVPTQPTT PTAKISDRLSDTIGKKPSDSYV
6088	1684	689	GASGLVRMLQGHKCLALAPVAPKIVPVVGVKGFHAPRQKCE LERQRLRLCCPPVPMKSPNDYHARIQAPHRLEQNFSLDLL KTAFTVMSYIKSEAKPCQGLGIEKAVLNLKSNGLSEQGTGF SOTCLAQFLEDEYPMPTTEGKILVDPFLTGEVYCHVARNLAVE QLTLSSEFPVPVAVLQCTFFAIVGALLQSGSPERTALPIRDFLI TQMTGKELFEMWKIINPGLLVEELKRNVSAPESRI/TRQSGA

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6089	3	3054	PTALPLYPVGLYCDKRLTAECPGCTVLVAEEAARVALRKYGF TENRRPWNYSKPKETLRAEKISITAS TRLGPGSTISSRPLCALAEGHPLGISNTGSKAGATGAPAW PSRRRLRDLPGAGMWRLRAAVACEVQSLVHSSGKGLPLQK LHLVRSKSIHSHRPTLKLQRPQLRSTFQFPSSLTNLPLRLKPS TKYKQPPRENFWPARKLATELLKLRLYLLGSAVOCGYTAKTPT QWKMPDLSHYMIVPDIWEIDSTIDPFKIRKALPSSSGLVK LAPDPKIVIESLSLAKDDFFTSQSPETATADKRSGLZHFRR VSDKEKIDQLQRELLHTOLKYQRLLEKEKWEKELKLVLCDD KGPIFIESLRKSLIDMYSEVLVDLSYDASVYTDHLPRTVYVGD DQSAGKTSVLEMLAQARIPFGSGEMVTRSPVKVTLSEGPHVA LFKDSREDFDITKEEDLAALRHEIELMRIRGNKGTGVSPTTIS LNVKSGPLQRMVLDLPGVINTVTSMAPTKETIFISKAYMQ DPNAILLCIQDGSVDAERSIVTDLVSQMDPHGRRTIFVLTKVDL AEINVASPSRIQIIEGKLFPMKALGYFVVTGKGNSSSEITAI REYEESEFPQNSKLMKATSMKAEQVITRNLSIAVSDCQWIKVRES VEQQAQDSFKATRFNLETKNNYPRLELDRELEPEKAKNEILD EVI SLGCVTPNHEEELQCSLAERVSTHVIETIYLPAAQMNBSG TEHTTVYDLKQWDKOLPKAVAEVAMETLQREPSRMTPEKPK EHDDIDFKLKEAVKERSIKHKNWDPAEDSLAVIQNRAEDSL SUKQQUAAIYMBEALQARLEKIDENAEINMVGDDWKKRWLWY KNRTQEQCVHNETKNELEKMLKCNSEHPAYLASDETITVRLKLE SRGVSDPFLSLKDTWQVYRRHPLKTALEHNCNLCRGFVYVYQRH FVDSLECDNDVFLPWRIGMLAITANTLRQQLINTVRLRKQV KEVLDFADBDGKKIKLLTGKRVQLAEDLKVRIQEKLDAFIS ALHQEK
6090	194	1560	PVPFAPGAVLEQAS/ASPLATQTVVPLQHCRTPELPVQASIL FELQLFFCOLIALPVHYINIKTVVWYPSHPSTHSLNPHLID FILLMYTIVLGRFVIGSVKEASCRGKSVLFRSILLFLTRFTV LEATGWSLCSILKPRYTSFLNLL/FFLLSVMDVHSVPAEELR PVRTSLPHNNAKGPRAVAGSLAKSREYLLTLR/RGSSSTQDS QMAPTPCP/PHACCLSPSLRSEVETFLCNDENRKBKVSBSML SAYTVAFVFPVFNKTHYVKKRNSCEFLNLSVSTSVILMQHLL PASYCOLLHKAALGWCQKVDPAFCNVLCHPWTEROMKPGCV LVKHSKNVYKAVGHYVNAIPSDVSHRFPHFFFSKPLRLINLILL LEGAVIVYQVLSMSSEKHQTSILALILFSNYAFFKLRLDRLL VLGKAYSYSASQDRLDRPS
6091	3279	412	SSRTREMEKEILRRQITRLQGLIDDDYKTLHGNAAPAGPTDAAG WQPPYTHSGPRAFARYPKPSRRGYSSHHGSPMRKKYSLVNRPDG PSDFPADHVRPLHGARGGQPPVPQQHVLRRQVLSQGGQNVVK YKPPSESGASASGAQVDSLEEFEDTPNSDGRPRRGGEPGRGQ LOPSETRAKTCSVEDPILLYQKQPKPMHVKLSVSGVDSPRE PKRTVSESVLWASPSGSLPRTCTVALKRLGSHVAVSCAPQ LLGDERVDAGHTQVPPVSGSGVGPAPASGPRPRAEASIVTCR TMKFRKNYKWAASSKSPRVARRALEPVAENVCASAGAMN KVEKPOLIADPEPKPRKPAATSSKPGSAPSKYHNGSSPSASSSS SPRWQSEAGSKDHASCLSPVLSRSPGDRPAVGHSGSLKPLSGE TPLSAYKVKSRKILIRRGSTSLPGDKSGSTSPATAKSHLSLR RQALRKSSPVLEKTPNKGVLQVTTTHRLCRLPSPRAHLPTKEA SSLHVAVRTAPTSTKVIKTRYIRVKKTPASPLSAPPFLSLPSWRA RRLISRSRLNRLRPVAGGGKAQPGSPWNRKGYRIGCGVLY KVSANKLSKYSQGPSDAGSERPLLRGRLDPAGSCSRLASRAVQ RSLAIRQARQRERKREKCYMYNHRGRCNRGRCPIYHDPEKV AVCTRFVRCCTCKNTDGTCPFSHHVSKRMPCVSGYFLKIGCSNBN CPYSHVYVSKAVCSGDLGKXCPGLANCKEKKTLCDPFRNNG ACPRGAQOQLHTQKHSRRAKTSAPAGPDAKAPSVASNG PKKFSABQRPTQTPSSAAALTAATAAAPPHCPGASPSSSKAS SSSSSSSSPASTLEADSLQEAALAAACSNRLKPLSPFISLQS SPSPGAQPRVRAAPLTKDGGPLHLKRL AKAPPVGESESEPAKVLHTRILYHVVVAVIRLILCNKILAYQ EVPKPENISLRNKLRELCKVIMFLAPVYDGRKAEELLMKVYVE
6092	143	3190	

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			VIQLIKTKKKHHSRSTLECAVYTHLVAGTGFYQHLLLYGSHY QLELQCCIDWHTVDPLIGCKKPVASGCKEMDMQACRCLVY LGDLSEYQNELAGVDTTELLARFYYQALSVAPQIGMPFNLQGLT AGSKYYNVEMAYCYLRICQSEVSFEGAYGNLKRLYDKAAKMYHQ LKCKETRLSPGKKRCKDIKRLLVNFMYLQSLQPKSSVDSDEL TSLCQSVLEDFNLCLFYLPSSPNLSLASEDEEYESGYAFIPDL LIFOMVIIICLMVHSLERAGSKQYSAIAFTLALFSLVNHVNI RLQAELEEGENPVAPQSDGTDEPESKEPVEKEEEDPPEPPVT PQVGEGRYSRKFSLSCLRERRHPKVKGDSDLSEGFESDSSH SARASEGSDSGSKSLEGGGTDAETDSEMNQESRSLDIME EEEGTSPTEPPRGRSEAPDSLNGPLGPSSEASIASNLQAMSTQ MPQTKRCFRLAPTFSNLLQPTTNPHTSASHRPVNGVDVKPSE PASEGESSEGESSEGRSCRNERSIQELQVLMAGELLPAVKVF LDWLRTNPDIITVCAQSSSLMNRSLVILNLLPAAEGLQESGLA LCPEVQDLLEGCELPDPLSSLLPEDMALNRLPLRAHRHFNF DTDRLPLSTLEESVVRICIRSFHFIARLQGSILQFNPEVQIF VSIQSEGESLLQQAQAQFRMAQSEARRNLRMDMAQLRLQLEV SQLEGSLLQPKAQASMSPLYVPDQALCHHLPVIRQLATSGRFI VIIIPRTVIDGLDLKKHBPARGDRIYLRBFKGNRYIROQUE VGKSFERHKLKQDADANTLYKILDSCKQLT\LAQAGSEDPGS MVTIITGLPLDNPSLLSGPMQAALQAASASVDIKNVLDYFKQW KEIG
6093	76	1002	ACGRRAMLALRVART/SRWGAL\RGAVVAPGTSEFKRACWALL PPVPCCLGCLAERNRLRPAALGLRLPGIGQRNHCSGAGKAAPR\ PAAGAGAAAAPGGQGPASTPSLYENPWTIINMLSMTRIGLAP VLGYLIIIEEDFNIALGVFALAGLTDLLDGFIAARNWANQSLGSL ALDPLADKILISILYVSLTYADLIPVPLTYMIISRDMVLIAAVF YVYRITLPTPTRLAKYFNPCYATARKPTFISKVITAVQLTILVA ASLAAPPVFNADSYLQILWCPTAFTTASASYSYHYGRKTVQV IKD
6094	23	1010	PFLRCLRGDQKAKMSERKVLNKKYPPDFPSKIFKLKLPKDRQY VVRLMAPENMRCKTCGEYIYKGGKFNARKETVQNEVILGLPIFR FYIKCTRCLEABITFKTDPSNTDITMEHGATNFQAEKLLSEBK RVQKEREDSEIMNPHKVLGNTRKQSKLSEVLENLQSLKDAWR QAHVDFEAMLRQHLSREERAKQQUEEDRQETALLREARLRL LEDSDSEDEAPSPLOPALRPNPAILDEAFVKKKVVVWQESV GSLGSRPPLSRLVVVKKAKADPDCCSGQPPQA/APHPSPALQEG GQPYTDAWRLVPEPTGCIQQQ
6095	1	1599	TKRGAAESRGRGHGLGGGFAVSVVDYFSPSEDFVGRGCGKNES GSRNNGWHSMTVDQYQDLIDRWGRRRSGKYVYVPMVNQCCPC YTYIRCRPLQPPQSKSHKVLKMKLFLAKGEVKGSC\DSFMD STMDDAVAGFALINKLDIQCLKTLSDDIKESLESIGNSKKE KPEQLIQSQDFVSGKISGSGSPSHS

TRADOC:1416257.1(6CSH01.DOC)

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			VVVHTVPAKPGKADLSKPPCKFAKEIRKRRKRLKMQNPAGEL EGFQAQGHPPSLFPKPAKSNQPKSLLEDLFEFLPENASHKLEVR VVRSSPSSQFKATLLESYQVKKRYQMVHKNPDDTPTESQPTR FLCSPPLEAETPPNGPDGQYSGTHQYMDGKI LAVGVIDILPN CVSSVLYLYDDPYSLFLSGVYSALRZIAFTQLHEKTSQLSYYY NGFTIRKSPKMYKQGRPSDLCLCPETVWVLEQCLPSIENSK YCRFWQDEAVOBDRSTEPDLQVPHKRAIMFYGVYKKQKQDPS EEAAVLQASLAVQKQCSRMILLTN
6096	2277	575	QRVEAMLSXAMDESLQFVFWLDPRLQAVTDLQWSEFTLL QSKAIPLALSGKDLARARTGSKTAATAIPMLQLLLHKAATP VVEQAVRGLVLPVPTKELARQAQSMIQLATYCARVVARVSA EDSVSQRAVLMEKPDVVVGTSPSRLSHLQDSKLRDLSELV DEADLLFSFGFSEELKSLCHLPRIYQAFMSATTNEDVQALKE LILHNPVTLKLQESQLPGPDQLQFYQVCTEEDKPLLLYALLK LSLIRGKSLIPVNTIERSVIRLFLQFSTPTCVLNGELPLSR CHTISQPMQGFYDCVIATDAVLGAPVHGKRRGRGPKCDKASDP EAGVARGIDFHVSAVLNFDLPPTTAYIHRAGRTARANNPQIV LTFVLPTEQFHLGKIEELLGSENRGPIILLPVQFMEEIEGFRYR CRDMRSVTHQATREARLKBITKEILLSEKLYTFEDNPRDLQ LIRIDLPHAVVPHLGHVFPDYLVFALRGLRVPHKKQGRCL PLVQRPRDQPFTHKCAASSTKESSDQPSPEVVGFLWS 6097
6097	1673	192	AKFTMSQKKKSSSTQSVITTYTGSGSPSSPTPGPTGPP PRLPMGSPSPDQGGTPTKNGSPPPGPAISSRPTVTLPHGLAE YRGRWTCVDVVERDLPHSFGCLLEGIRGNSGGAQGRSLDERL ELASLGLGAPTPPSGLSQOPTSWLRFPTPSFGQARSSTQGLQ LVVPSKAKAEKPPLSASSPQPPPEETGSSAGTSAATPLPSL RVRAEAGGSGARTPLSRKQAVMLRMLGAPFEMQGVPLDS RPSSPALYFTHDASLVHKSPPDFGVAQAQKFLAISMLAISGHL DSDDSGSGSLVGINDKIEQMDLVKSHLFAVREVEVLKEQI RELAEARNALQENGLRALA(SPEQLGASGPPRGVPR/LGPPA NKGFFVLSPLSTIVPLGLPGLASAAKPLNPAIIVPVFPGVG VQALSNQPSWQPLPHLLIIPSLDGGSGGRTURQQAQAPFGEET QPPSLGPTQQ
6098	168	1074	NYCLRHRSFLEKDSSPGSSSTSLIKKQRETSDDTFIMALKELD EGKIFKNWGTQTEKEDTSNINFRQTTSVNASRSPKCAQQRK RLNASQRSSSLPSPNKRKSSPTFKREIMLTPTVTVASFKRSPKE NLSPGFSHLLSKNESSPIRFDILLDDLTVPVSTLQRTNPKQL QFLPLDDSEEKVTYSEKATDNIIVNHSSCPPEVPNGVKVSVR TAMEKNKSVSYEQCKPVSVTPQGNDFEYTAKIRTLAETERFFD ELTKEKQDIEAALS RMPSPGGRITLQTRNLQEAQGRSGKGD
6099	168	1074	NYCLRHRSFLEKDSSPGSSSTSLIKKQRETSDDTFIMALKELD EGKIFKNWGTQTEKEDTSNINFRQTTSVNASRSPKCAQQRK RLNASQRSSSLPSPNKRKSSPTFKREIMLTPTVTVASFKRSPKE NLSPGFSHLLSKNESSPIRFDILLDDLTVPVSTLQRTNPKQL QFLPLDDSEEKVTYSEKATDNIIVNHSSCPPEVPNGVKVSVR TAMEKNKSVSYEQCKPVSVTPQGNDFEYTAKIRTLAETERFFD ELTKEKQDIEAALS RMPSPGGRITLQTRNLQEAQGRSGKGD
6100	2	713	FVEVSGYRSRADPEPRGRDITMTATLFEKTYIGDTGVGKSCLLL QFTDKRPQPVHDLTIGVEGARVNNIDGKIKIQWTQTAGCSFP RSTTSYTKRANGLAVYDTWRETTPHLSLWLSDAQHSSSHM VIMIGKNKSLSSRDVKESEAEAREHGLIPBTSKATACN VKEAFINTAKELYRKIQQLPVDHNEANGIKIGQQQSISTSVSP SASQRNSRDIGNSGCC
6101	1	1399	PRGRWPLREVSHWGCRVRCSWSASXGRLPALSARLSPLLAER GMVFPFLSCAVQYQWGMGNSSEVALLSASSDPLAQIAEDKPY AELWMGTHPRGDAKILDNRISETLSSQWIAKNDQSLGSEVXDFT

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6102	70	2415	NGNLPFLFKVLVSVEPLSTQARPNKELAEKLHQAQPHYPDANH KPRMAIALTPFQGLGPRPVEEIVTFLKKVPEFQFLIGDEAATH LKQTMSHDSQAVASSLQSCPSILMKSEKVVVBQLNLLVKRISQ QAAAGNMEDI FEGELLQHQYPGDIGCFATYFLNLLTLKPGS AMFLEAVPHAYLKGDCVBCMACSDNTVRAGLTPKFIDVPTLCE NLSITPSSSKDRLFLPTRSQEDPFLSIYDPPVPDFTIMKA\ EVP QSVTEYKDLNLSASILLMVQGTVIASITPTTPTPIPLQGGVLF FIGANESVSLKTEPDKMLLIFRACILL OTFOATLAXNGXEDSKGSE/LPAGETIGASPAAPCCSESCDERRN LEEKSDINVTVLIGSKQVSEGTONGDLPSYVAFIEKXEYNDLKL SLKKLKLIEQRTVSKMQLQEEVLTTSSEIPKRIASALONAES QKFLNQFLEQETHLSAINSHLLTAQPNDDLTGMTISQIESTER HLAYLKNWISQIEELSDNIQQYLMNTNVPEASTLVSMALDEIKL QESSCTHLLGFMRAITVKFWHKLLDKLTSDFEELAQILWNPFI A PPQSQTVGLSRPASAPRTVSYLETLFCQLLKLTSHELLTEPK\ HSQKNTLFLPPLLSS /WPIQVNLTPLOKRRYHFRGNRQNTVLS KPEWYLAQVLMWIGNHTEFLDEKIQPILDKVGSLVNARLEFERSG LMLLVLEKLATDIPCLLYDDNLFCHLVDEVLFEERLSHSVHGYP GTFASCHILSSECTCFORMLTVERKFAQKMDMSLSEAAWWSQ YEDITVDVDEMKVPCCABTPHILLVLTORHNDLPTASRKLQFLE LQKLDVDFRILRLQVWKBTRASLAFRCALANAVNTISTVLA DWADNVFLOLQAALEVFAEDNTLSKQLQGLASHBSVFDMM INLLERLKHDMTQVDVHVFREKDAKLYKKERWLSLPSQSSQ AVMSLSSSACPLLTLDRHLLQLEQQLCFSEKIFNQMVERKLD VYIYQEIILANHFNEGGAQLOFDMTRNLPLPFHSYCKRPNFYF KHIEACIVLNLNVGSGALTAGLOFDMTRNLPLPFHSYCKRPNFYF
6103	207	2523	ESNSTMTTLEFTIQNEERDGVRSNNWPPSRLEATRNWTPVA ALFTPLKRPDLPPQIYSPVLCSRTTCRAVLNPLCQVDYTRAKLN ACNFCYQRNQFPSPYAGISELQPAELLQFSSIEYVVLRRPQM PLIFLYVVDTCMEDELQALKESNQMSLSLLPPTALVGLITFGR MVQVHELGCESKSYVFRGTKLSAQKLGMLGLSKVPVTQAT KRPQVQQPPFSRFLQPVQKIDMNLTDLLGELQRDPWPVQGR FLRSSGVALSILAVLELCTTPMTQARIMFPIGGPATQAGMVG DELKTEPISWEDIDKNAKIVKIPTEGHEPALANRANTGHTVTDI YKALDDQGLGLDMKCPNPLFGYVWNGSDSNPLFGQTFQVFT KMDEGQPKMGFOOTELEITPR\ELIKLSQALGPCVSLNEKAPCVS ENEIGTGGTCOWKICGLSPTTTTIAIYFVNVGHDAIPQGG\RG A\IQVFTQY\QHSQGRRIEVITLARN\WACAQTIQ\Q\TAASF DQRAAAILMARLAIYRAETEEDVLNLDRLCLRLCOKFGEYHK DDPSFRFSTFSLYQPMFHLRRSSFLQVFNNSPDESSYRHH FMRQDLTQSLIMQIPLIYAYFSQCPPEPVLLDSSSILADRILLM DTFQILIHGETIAQWRESGYQMPYENFHLQLAPVDDAQE ILHSRFPMPRYIDTEHGGSQARFLLSKVNDPSQTHNMWAGGSS GAPILTDVDSLVQFMDHLKKLAVSSA
6104	124	732	KVSEYIILSKDKLIFHALAMLVVSPSAAAGVLRNWEHLLR KLQSRPGFSPMGPAALAVQ\AQPCIQSQMI PVEVKR /RSL LDSIFWMAAPKMRKTEIVNRCHRRNQKLIVKRNIMDVCPPEGGI KQKHVLCAYCEKVKETAELRQIGKGQGGPFKAPTETETVVL YKSFPSHQQCKRIERDKISWTCN
6105	3	989	PLRGACTSLVLOFCRCHRPFCAPRPFEDRRFAAVPIALLCFC GQRKAAATACGRFMRANWVGQGTQEGTNPQVSTQNGSHF CGSGLIAEQVNLTAACHFRNTSETSLYQVLLGARQLVQGPQPHM YARVQVESNPLVQGTASSADVALVELEPVFSTNYILFVCLPD PSVIFETGMNCKVTWVGSPSEDLLEPEPRLQKLAVPIDT\PR CNLILSKDTEFGYQPKTIKNDMLCAGFREGKIDACKGDSAGPLV CLVQGSWLQAGVISWREGCARQNRPGVYIRVTAHNNMIRHILPK

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			LQVQSEVGRPEVTTPGQAP
5106	3	1302	GRPPTAPIITGRPTANRGDPRLLDKKGCARLLTSLSRGRPNAS AGLRDRDCALAKNWLKRAPLAKATRRAGSPRCAPRPRACPOG WSRARHPGGGLCLLLLLQFMEDRSAGAGNHLQAKNGRCQV LYKTELKKEECCTORLSTSTWTEVDNNTLTKWMTFNGGAPNC IPCKETCENVDCGPGKKCRMNKNKFCVCAAPDCSNTWKGPVVC GLDGKTYRNECALKARCKEQBLEVQYQGRCKKCTRDVFCPS STVC/VQGTNNAYCVTCNRICPEPASSEYQLCGNDGVVYS\SAC HLRWATCILLRSIGLAYEGKCIKASCEIDICTQGRKCLWDFKV GGRCSGLDELCDKSDSEPVCSADNATYSECAKKEALCAGSGV LLEVKHSGSCNSISEDTHEEEDCDKSTPSTSL
5107	623	168	SKCSSPREFPGRGKQK/LSPSHKRRNVFVFKACDEDHGYSLSRE DFKTAVMVLPGVKSGKIEVDGVMSINPNTSGILLGFLNIVRK KKEAQRYRNEVRHIFTAFDTYYRGLFLIEDPKAFQVAPKLPRE RTVLVEFRV\DRDS\DGHVSP
5108	3	1348	GGSLRPSPPRFRVCSRVFCVPELPGCGLLSPWSASRPQSPPTPN CLPRYMKHRXRDSPKQDEAVDTPVMTCVFVVMCCSMLVLL YFVLDLVLVVVIGLPLASATGLYSCLAPCVRLP\SASAGESA LLAPTIPNNSLPYFHKRPQARMLLALFCAVAVVVGVRNEDQ NAMVLQDALGIAFPLYMLKRTIRLPTFKACTLLLLVLFLYDIFV FIFPFLTKGSSIMVEVATGSPSDSAREKLPWLVKVRPNSSPL ALCDREFSLLQSDILVPLGLVAHCHRFDIQVGSRRVYFVACTI AYGVGLLFTVVALAMQRCQAPALLVPCITVSCAVLWREEL GVWFTGSGFAKVLPPSPKAPAPADGPPKPSATFSPQPSSE PATSPWPAELSVKSRISKMWAGAPMREPGSPASEGRDQAQPS FVTPQASAS
5109	1	1381	CSRKGAASGGAYLEFTRLEKQRVDNKNPLDPLVPSALAKMILY LEDYLENIEQLPMDLRDRPTREMDLQVONAMDLQQRVSEFF MNAICNNPENREEQMASIKKDYKALEDADEKQLANQYLDLVD RHLRLKQDLAKFMELEADNAGITEILERRSLDLTPSQPVIN HHASHPTVEKRYNPTSHHTTIDHIPEKKFSEALLSTLSDA SKENTLGCRRNNTASSNAYNVNNSOPLGSYNIHGLSSGTGAG GI\TMALAAQVQATQMKEGRRTSLSKASYEAFNCFDQKKEF SHARETVGYSSSALMTITQMSASAASSSSGRKSNNKSSS QSSSSSSSSSSSSSSSTVQETSQQTIVBESDNGQVDWT YDNPFRPYCICNQVSYGENWGDQDCCPIENPHYGCVGLTEAFK GKMYCPQCT\AAMKRRGSRHK
5110	77	2464	ACPSAATHSDQHSMDENTAVVYIKRQGVGGNGNGNKGKIAFQ ARSSSTGSSSSSTGGGGQSQSPPIAIAATCSRIESPNNSNNIS QPSQSGGTGELDLTATQLSQGANQWQIISSSGATPTSKQSG SSTNGSNGSESSKNRTVSGGQVVAAPNLQNOQVLTGLPGVNP NIQYCVIPOPOTVDGQQLQFAATGACVQDQSGGQIQIIPGANQ IITNRSGGNIIRAMPNLQQAQVPLQGLANVLVSGTQTVTVNP VALNGHITLLPVNSVSAATLTPSSQAVTISSSGQESGQPVTS GTITSSASLVSSQASSSSFTNANSYSTTTTISNNGIMMTFTG SSGTNGGQTPORVSGLOQSDALNLTQNTSOGSLOAGQKQKRE QWKTQAPWKSISAPLQVQVQALQAFQAPALSGQFTTQDA ISQFTIQLQQLQVPSGPIIIRFTVPGNQVSHQCLQCLNLC VQNPQAQITLAPMGVSLQTSSTNTTPIASASIPAGTVT VNAQLSSMPGLCTINLSALGTSGQVHPIDGLPLAANAPCDH GAQLGLHAGGDCIHDDTAGGEGENSFDAQPGAGRRTERRACT CPYCKDSEGRGSGDPPKKQHIICHIOGCKVYKTSHLRAHLRW HTGERFPFMCNWSYCGKFRTRDELQREKRTHTGEKKFACPCPK RPMUSDHLSKHIKHTQNKGGPGVALSVGLPLDSGASGSGST ATPSALITTMVAMEATCPBGILARLANSGLVKEGGQCSINT SANGF

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6111	1637	797	RVDPRVGGANAFWGRKLAGVRGVLDDISGVLYDSGAGGCTALAG SVEARVARLKSRSLKVRFTNCSQKSRKELVQQLRGLGFDISBQE VTAPAPAAQCQLKERGLRPFYLLIHGVA\ASEFDQIDTS/STPNC VVIADAGESFSYQNMNAPQVLMLELEKPVLLISLGKGRYKETSGL LMLDGVPMKALEYACGL KAEVGGKSPSEPFKSAIQAIGVBAHQ AVMIGDDTVGDVGGARCGMRALQVTRTGPFPSPDEHHPVEVKDG YVDHLAEAVDLLQIADIK
6112	77	196	MSHKSFKSRKFLAKKQKPNRFLQWLQWLTKGNKIRHNWK
6113	1779	567	WGSWSAAACVNLQGAWSRSGVRASESFGKRADVSWNSRQL EFWVILLANTENSGRIAAVTCPCGASGQPLPQVLLGEGVL TKCRCKAKRIFPFLPNDLIVGSLVLRKKRPGSHIIPLEEVTE LELLPTLQAKNNMILTKAKSFFVSAASATEROSHSISECV RRQLRATGREFA\STHEAHPVDPKATDTCWCTQTRFSALTRH HCRKCRVVCARCSQRFLPRLSPKPVVCSLCYRELAQQRK EBAEQGAGVFRAASHLARDICGRPVMTIMPTFRRAAGATNG PAWSSTPRQWPGLPSTADPRPAHLSPQLHCPQBGSSRGC PGLRDFIPWQVQRWVALSGLPVFPWCTLCPYGTAGNAPFPR KPQNTHRSH
6114	818	246	PTSRPPSPGS PAMWSACVSAABSSSWPASSWPCGPRRCCTR RKRCS PRCLAGSMCS CS PSWRCTPVPCWPSPPP\PAEQVQ GHLPFHADRALRLPVAAPARGPGPGHAGPAGFPARTPPASP HGRFRFTVAPPCPLLAAITEPTSPSRPQKRWTRDEMLGSGSQVT GRPCWFLRGVLPSL
6115	324	71	DYCRVCNHRPLVTHIMHTCAGAC\THVHQLC/ITAGHALAH SHLYTCMVLTASHTPSHTHPTAVHKEHRADVLRGTLPRL
6116	593	1430	TGVNPFGRWHAJ\ISSGGPVFEGNA\TCQVKKEEEDSEVPFQ AARFQTLNRPGQLPQQLPQLRQLYHSSSPLETLGR\RLCRWV LRPDLVSKAQLLELLVLEQFLSLPGLBLRVNVLNTPSEGEVL WPCWRSRGTLMGHPGGTRALP\BPRCALDGYRS\LRSAQLWSL ASPLRSSSALGDHLEPPYEIARDFLAGQSDTPAQPALPFPRE CGPGQVTPTRSLTAQLQETNTFKDQVETFSQDEWGLDSAQRN LYRDVHLENYRNMASLQK
6117	1433	222	VGVPSFAPPSCSWQVGGGQWTFQILKKGQGGRRTELILLATRTR GLLSLFPFPAAMHAPAFLEVVVAALVNGAAPTRGLIRATSDRNA SNOFADLALPQATLSQGLQPLVEAHDPNACSFIAPPFPAFV NGSVIALLRFTCHDFVLQVLLQKQGYAAVPTVHSSNELLNM VVNSBEEQQQINVSFVPIGERSSEVLALPVEYKGRVLEVDN TFLPYGLLIPTFIVGLLVLMAGVMIARCIORHRLQRNKT\TK \BOLKQI\PTHQVQGDQVCAICLDEYEDGKLRVLPCHNAV HSRCDVPWLTKTRKTCPICKQFVHRGQDGEDQEBTQGGREGE GEPRDHASERTPLLGSSPTLPTSPGLSAPALPVFPQSTDPPL SPPSSPVILV
6118	1044	247	STISCRACSTGATPQAQSHRSARGHAAGCKETALNGRKGKVK KEKEKETQKEKIGSEKREKVKKEVEQKIKQEKQKGRNGKK EKEEKRTQKQKINKRKQPKQGEKQKNDSTLRTPLEPLEK NKQILVIGLDGAGKTSVLHSLASNRQVRSVAPQQFHAVCINTE DSQMEFLRIGGSKPFRSYWYMLSH\ADSLARSFSVGFQKDSQP ITWKAKYLLHQLIAANFVLVVTANQQLDAAHYHIDIEHALA II
6119	1217	462	DRPFVTRNTTKAPQERTTPQSSSREGTASTWYELSAALPBDL LRSVSNISSEPGHWRVTHAPPQRPFTVCHKEKTRIKGLTAATR QKILAKALFTLLGLVLTLLVLEEDGTAVSEDFQLLEDDETCLM VLQSGQSWSPTRSGVL SYGLGHRPKHSDIARFTFVYQKNPR DLFGLNVKATFYGLYSMSCDFQGL\GPKKVLRLLELRWTSTLLQ GLGHMLLGISTLRHVGAGSQQXGRHSHY

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6120	765	179	LERAGGGGLSSRALVSGSACLSIVARANGKGLPRGRKYPVEAVR VRYVAPRYKTPRAVCLRLWSCRREVINSGRGQGGKVRNAKASR SSRAGLQFPVGRVHRLRKNYASRVGAGAPVYLALEVLTAS ILEIAGNAARDNKKTRIIIPRHQLAIRNDEELNKLGLKVIQAQ G\VLNPIQAVLLPKKTESQKDEGANP
6121	1612	107	FVRAGAGSROFVRRLPLAGSRRLRCRSGRMEPLKVERFATAN RGNLRAVTPFLRQCELLFRSDPLATVCKSGRGGVCDRLCGKE KLWRCQCRVAKYCSAKQCKKAWPOHRECKCLSGCKPRFPDPS VRLLRGVVFKLMDGAPSESEKLYSPFYDELENLKLTDKKBEL QLVMTQHFMRBEIQDASQLPPAFDLPEAFKVIQNSFTQNAE MQEYVGVLPSISLNLHSCDPCNSIVFNGPHILLRAVRDIEVGE ELTICYLDMIMTSEERRKQLRDQYCFECD\CFRCQTDQKQADM TODRGVQWKEVQESLKKIEELKAKHMKQVLMCAQIISSNBL PDINIYQLKVLDCAMDCINLGLLEBALFYGTRIMEPYRIFPFG SHPVGRGVQVMKGLQLHQGMPPQAMKNLRLAFDMRVTHGREH SLIEDLILLE/AMRRQHQSIILRRSOREIRVSLNLAIRSET LCFVSCVNLVSYNFKCSVFV
6122	2	2324	RFRIMADGGAASQDESSAAAAAADSRNNPSETSIPSMESSEJG NNGTCINGLDFOKQPVVGGAIATAQAGFLGHLHVOVLQAGTSL QAAAGLAVGDSKSNHESGDSQSPQSPQSVQAAIPOTOLMLA GQGTTLILPAQOQLLLQOQAGQQLLAARVOHSSASQOHSAA GATTSASATPQOILPLSQPIQAGQGLQGLAQGLNLOQF LVHPTTNLQPA\QPIISOTPQQOQLQQAQILLTOLRQSQM LIQSQPRI\ILTSQPATPTCTIAATPICI\PGSGSTPRCDTPS LEEP\SDLLELEQFAKTPKQRIKLGFT\QDAGLAMVKLYND FSPTTIFRFEALNLSFNMCKLKLLEKWLNDALNSDSGLSS PSALNSPGIEGLSRRRKKRTSREA\NIRVALEKSFLEN\QKPTS BEIIMADQLNNEKGVIRVWFENRRQSKRINPPSGG\TSSSP IKALPSPSTSLVATTPSLVTSSAATTLTVSPVLPLTSAAVIMNS VGTGSDTSSNNTATVISTAPASSAVTSPSLSPSPSASASTSEA SSASESTSTVQTSIPSLSPSGTQVMVTASGLQTA\AQLLPFKG AAOLPANASIAANAAAGLNPFLMSPSPQFAAGALLSLNPGTSL GALSPLAMNSPTLNTICALLASGGSLLPTSLDATCNLVFANAGGA PMVITAPLFLPNQLNLLSTNPSVLSAAASAGNSAPVSLHA TSTSAESTQNSLPTVAGASGAATTTTASAG
6123	3	2944	HLHRLWFGTDQCMINFTTGEFOLTEACPYLGHHSSEFGILHL HLQPLEMKRVGVVFTPADYQKVTSLLIRNLNLTVIDMIGVQFG ARELLKVGGRKPGAGGSLRFPKPESTLMDCRQLXDSKQILSIT KNFKVKNIGPLPITVSLKINGNCOGQGVFVLDCHQGLDPNT SRDISIVFTPDFTSSWIRDLSLVTAJLEFRFTLNVLPHILL PLCADVVPSPWESFWRLTVFVSLGLLGVILIAFQQAQYILM RPMKTRQRQNASSSSQQNGPMDVSPHYSKSNCKFLDTYGPS DKGRGKNCPLVNTQSRIOAARXKSPATYGHISQKHKCSVITYSK HKTSTAASSTSTTTTEKQTSPLGSSLPAAKEDICTDAMRNNMI SLRYASGILNVMQKMLTAPKMLNKEENTLNTIVFSPNSPSSCS MKSHIQCMPPKETDIKISENTASFKEKELCPKTSKKLPENHL PMSPYHIVQFPLPEISRKNNGNQGVVYVNEVDHCEKLVKVDTK PSSKKTKHSREDFMSBKQIDPVEQEDPRKKLQSKRKBGL QNLNASKSKRTCRNKKRGVAPVSRPPSSDLKLCVCSDESSELS SDINVRVSCIQESTREVCADARIASLPAQCEARBYQKIEK KCVDFKCSDDSSQSGSGSVASRGSGWSWSTESDDDKKPM VDAQHFLPAGDSVQNDPSEAPISLNLGINICNMTGNSLFOY ARPSCPSLPAGPTGVREDKGLYSPGDLWPTPVVCVTSISNCTLE NGVPCVQIESAPVINSFIDWAS\CRGQFSSAYCPLLENDYNAPF EENMNYANGFPCPADVQDTFIDHNSQSTWNTTPP\NMPAS\WGN QFPSSSRPYLKSTPKACLPMGSLFGPI\WAP\QSDVYEXCCPIN

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6124	1573	236	PTTRHSD/THENQA/VVCKEYYPGF/NPFRAYMNDIWTITTA NRNANFPLSRDSSYCGNV SDEALRLAGERGMGRVQLFETISLSHGKVVVSPEGLATVVRVRL GAPLPFKAIRVTCIGSCGVNSKQANDTAMVVEGYFNSSLSLADK QSLPAGBHSFPFQLPATAFTSFEGPPGKIVHOVRAAIHTPRF SKDKKCSLVFYLSPALANSIPDISQPNVASATEKFSYKLVKVG SVVLTASTDLDGIVVQCALQLHADVENQSKTSPVVASLLQKV SYKAKRWIHDVARTIAEVRGACVAKRRACQHEQLLVALLQSAL PGCSLIHTIDYVLQSLKAPATVTVLPVTGNTAV/NPCESEPPA RPGNASWGPTGG/PSAFPQERAEAEAAAGGHPFLDPVFLSTKS HSQRPQLLATLSSVGAPEPCPDGSPASHHPLPLCISTGATV PYFABGSGGPPVTTSTLLPLPYSYSGYVPEAPPSYEQSGGVE PSLTPEBS
6125	1	904	KTCPLKTCAPTIVSPDSCRCVCRDGGELSSWESDGTITQFANR EARHSYHRSHYDPPPSRQAGGLSRFPGARSHRGALMDSQASGT IVQIVNNKHKGQVCVSNKGTYSHGSRNHPNLRAPGIVECVLC TCNVTRQRCCKIKCPNRYPCYKPKQIKIDKCKOCVCPG/KKAKEBL PQGSFBNKGYFOGSETMPPVSVESVMEDEGITTAKIALETERTPOV EVHWITIRGGLQGHPIEKISKRMFSELPFHFKVITRTLLQWIKI FTGEGATISQMSCKVCKITLEDLIVLVYLERSEKGGHC 6126 1224 389 RLVSEAPCPSERRFQNPWSEAFVHVAAGGLCAVAVTGTGIF DSVSVQGVGYHVEAPVAGLPAPALANPESLNSWATLLGLESL HGGGAMSLGPRYLDKVPAAVALLYGVQVWLRWQTRAEALVQ NLTLPIFAMVPANCLYLDGWRP/WLFLSLCYSLASVGLAILH PQGFVALGAHVVPVAGQALRT/HRHYG/SATPSATYALGVLS CLOFVVLKLDHQLARWRLFQCLGHPFVSXVCDVLGFHFAFLPL THFNTEPRFHPSSGGKTR
6127	1335	463	VLPRRCCLVFNVTNMDSSREPTLGLDLAAGFWJWRJFPADEKGY IEEKELDAFFLHMLMLKGTDDTVKANLHKVQKQMTQDASKD GRIRMKELAGMFLSEDEFTLLFPRFNPLDSVEFQIWRKYDA GSGSPISAAELRNFLRDLFLHKKIAISALLEYTQTMKIFDR NKGRLDNDLARIILALQENHFLQFMDDACSTERRKQDFEKIPA YDVSKTQALGEP/EVDSFVKMEHVEVQPSISGVGLDKFKRITLL RHCDDWKKQIKQSLALCLGLKLP
6128	2511	843	TCMSRNLQRHFWSSQGVQARGENYAPRLKTIANGLNMSKSD SPQSLDORAMEDAQKPOASWCGHKTRYVATSSWAPSEGTGR GGAARPEKTAERGPPAPGSLRHSQPLGFIACPTALPEPQVTA MSSQVVGIEPIYIKAPASPDSPKGSSTETETPVALAP/PAP TKCLPGHKHEEDGGAGPGQGGKLVLSLSPKLCVCGDVAS GVHYGVASCEACKAPFKRTIQGSI EYS CPAKNECETIKRRKAC QACRFTKCLRVQMLKEGVRLDRVROGGQKYKRFEVDELFPFGP PPAGPLAVAGGPRKTAAPVNALVSHLLVVEPEKLYAMPDEAGPD GHLPAVATLCLDLPREIVVTISWAKSIPGFSLSLSDQMSVLQS VWHEVLVGVQRESLTLDQSLAFARYLVLDREGARPAAGLGLG/ AALLQLVRIQALRIERERYVILKALALANSVHLEDEPRLMS SCKELHREALLEYEAGRAGPGGAERRRAGRLLTLPLRLQTAG KVLAIHVVVKLEGVVWHKLFLEMLFAMMD
6129	1764	771	ARFASAHSGORPKKTKARKKAEKREKQLRASESTIDLAR HPCNASMECDKQKQKQKAFYPCNVSQKLPICAGCGKTKMM KSSDCVYKHAGVYSTGLAMVGAICWCBANVCHKRCSTHACA CPLTDAC/VCEKGVWMDKKHIFSCSPCHMFLCDDQSBHQS CQVLEAETFKVCVSNRGLQHSCLCKACPCDHTRSKYFKBQK KQPPCPCKGHRTQETKDLSSSTRSLKFGRTGGEGDASGYDA YWNLSDDKYGDTSYHDEEEDYEAREDEEEDDEGRKDSSTESS DLFTNLNLGRTYASGYAHYEEQEN
6130	3	577	GRGGTMREYKVVVLGSG/GVGRSALT/VQVTCFTFIERYDPTIE

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6131	3	1811	DFYRKEIV\DSSPSVAGISWTQQCTEQ\ASMRDLVTKKGQC ILVYSLVNQQSPQ\DIKPMRDQIRVKVSEKVPVI\LVGN\SVD LSESEBVSSSEGRALAEWGCPFMRTSAGSKIMVDELFAEIVRQ MWYAAQPPDKDDPCSCACNIQ SPPREKTSDDSSSEPSRHGFLFRLVLQSPFSYLCVFPSPFVFGS PRSLSANRLDLPAPRLKRSRPHLPSCSFALLLLVVGCGLOVF CVAAGTRPRPNVLLLDQDQDEVLQGTPLKKTVALIGEMGMTFS SAYVPSALCCPSRASILTQKYPHNNHVNTLEGNCSKSWKIL QBPNTFFAILRSMCQYOTTF\AGKYLNRVQADAGGLBHVZLQW SYNYALEKNSKYNYTSLINGKARKGRHNSV\DYLTVDLVANSL DFLDYKSNFEFFFMMTATP\APHSFWTAAPQYQKAFQNVFADPN KNFNHIGTKHMLIRQAQTFMNSISICFLDNAFRKRQWLTLSVD DLVEKLVKLEPTGELNNTYI\FYTSDNGYHTQGFSLP\DXRQLY EFDIKVPLLVRGPGIKPNQTSKMLVANIDLGPTLIDIAGYDLNK TQMDGMSLLPILRGASNLVNRSD\LVVEYQGBRNVTDPTCP6LS PGVSCQCFDCVEDAYNNTYACVRT\MSALNLOVCEFDQGEVVF EYVTLTADPQITIMIAKTI\DPFLGKMYRLMLQJSCSGPTCRT PQVEDGIRFPDPRMFSNRGSVYTRFRKSHLL KXGLPPTQVPSDRKTNLGLFP\IQGFPPALSRLPFCSEW5GM ANEAMPEFPLVLDLQ\PKGVSEPESSSGKKKKLVLPSTSKDD PKFSEIQRKA\VMEMINACTLPHBIVVRLSEEDMDLGLLHJL FQRLAALKLBAEDIALTATQKHKL\VVLEAVNRS\CSWRSRPS SGA\WESIFNKKLLSTLHLVALAKRFQDPLSPTNVQIVETI ESTKSGLSKLEKLVQOLT\EYSTDKDEPPQVDFDLFLKAPKQNA VKRAIVNFVQKLDRLGLSVQNLDTQ\FADGVILLILLIQGLEFF LHLKEFYLTNSPAMBLHNVTAL\EL\IGRGAQALPC\LA/LK/ TIVNKDAKSLRLVGLFCGHTQKARRDRTPHGAN
6132	96	1241	
6133	2	4256	FVGGSMADTDLFMECESELEPWGKISVSTEDSV\EDYNSVDKT TTVSVSQQPVSAFVPIAAHSAVAGHLSSTTVSSSGAONSDBTK KTLVTLIANNNAGNPLVQQGGQPLILTONPAPGLGTMVTOPLR PIVQNGANHVTSPPVADQPIFITTQGPVRIVRPVQANMQVQV ILVNVQQQQTVEPITLIVAPGTQVPPVGVVQVQ\FSQMTFVRG SBTMEVPTTPTTPTTVPKCLTRSTFVQGSQGTGKSTSTSTPT TACTQPTSLGQLAQVQSGQSQNTPKLAPSTFSPVAVIASPTV VRRPGVTGENSNVAKLVNLTMTIPSLQCGPQPVVYVNSNSAH GSQRTSGPSSMKVTSSIPFVLQDGGORIKCPCHACQFVTEAL RGHMCYCCPMEVEYQKKGSLDSFSPVPSAAKPPSPKTA\PVAS /THSSTFIPALSPPY\TKVPEPNENVGDAVTKLIMLVLDIFY GRDGGKVAQLIN\FPKVATSFRCPCITKRLKNIRFMHMKHVE LDQQNGEVDGHTIQCHYRQPS\TFPOLQCHLENVHSPYSTTKC KICENAFSEKPLFQHKMDTHKPGEMPYVCQVQYRSLSYSVDV VHPHMIHEDTRHLICPYCLKVFNKGAFAQGHYMRHQR\NVYH\ CNKCRVQPLPAKDKI\BHLQHHKTRFKPQLSEGLKPGT\KVTIRA SRGQRTVPVSSNDTPPSALQEA\PLTSMDLPLVFLY\FPVORS IQGRVVRMSVMGRQTCLCESEFELPDHNFHPTVHCS\CRYST CCSRAYANMININIVAKRGPYKALGFKNVSGIKI\ACTSCFTVT SVGDAMAKHLVNPNSHRSSSILPRLVLIASRQGTDRDRVDR NVKNMYPSPSPFTNKAT\KSGAGATPABPEKLLTALAGPFA STATPPTPTPHQALALPLATEGASCLNVDDQDQSGPYTQEPB LASGGGSGGVGKKQSLSVKILRVLPALC\NTEQAEHPFNQPR RIRIRLWLRFPQAGQGENLEKYLSEFEAKELASVLTQREQLPL VNEBTLFQKATKIGRSLGGGKISYEMAVR\FMLRHHLT\PHARRA VAHTLPKDVAAENAGLIDFVQRIHNLQELPSM\VAIDELSLFL DTEVLSDDRKENALQVTGTCGPWCDDVLA\LAJOTVLP\TFY RQMDQPANM\PDILLSRAKESGYS\DEIMEINSTRVQKHTAQO RSGMLVMDCHRTLSSEVLAMLSASSTLPANVPAGCCSKIQSL

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			DVCIKRTVMNLFHKWKRQAREMADTACISDVLLQLVLVNLGEV LGVIGDCPELVQSRFLVASVLPGPDGNINSPTRNADMQEELIAS LEEQKLKSGHSESSPTRPRSSPEETIEPESLHQLFEGESETES FYGFREADLDLMEI
6134	2	4256	FVHSGMADTLFMCBEEELPEWQKLSDVIEDSVVDYNSVDXT TTVSVSQQPSAPVP IAHASVAVGHLSTSTTVSSGAGNSDSTK KTLVTLIANNAGNPLVQGGQPLILITQNPAPGLGTMVTPVLR PVQVMQANHVHTSSPVASQPIFITTQGGPPVRNRPVQNMNVG IVLVNQGGQTVRPITLVPAQGTQVKPTVGVQVFSQMTVPVRPG STMPVRPTNTFTTVPITATLITSTVPSQSQQTSTPSTSTTP TATQPTSLGQLAVQSPGQSNQTNPKLAPSPFPSPFVAVIASPT VKRPVGTGENSENVAKLVTNLTIPSLGQSGPVPVSNSSAH GSGRTSGPESMSKVTSSIPVFLDQGGKRICPQNAQFRVTEAL RGHMCYCPPEMVEYQKKGSLDSESPVPSAQPSPSEKTPAVAS /THPSSTPIPALSPPY/TKVPEPNENGVDAVQTKLIMLVDDFY GRDGGKVAQLTNFPKVAISFRCPHCTKRLKNNIR7NMNMCHIVE LDQNGEVDGHTICQHCYRQFSTPFLQCHLENVHSPYRSTTKC KICWAFESSEPLFLQHMNDTHKPGEMPVQVQCYRASSLYSEVD VHFRMIHEDTRHLCPYCLKVFKNAPQGHYHMRHQRK\NVH\H CNKCRVQFLFAKDIEHKLQHRHTFRKPKQLEGLKPGTKVTIRA SRGQPTVPVSSNDTPPSALQEAAPLTSSMDPLFVFLYPPVQRS IQKRAVRKMSVMGRQTCLECSFPIPDPPNHPTTVHCSLCRYST CCSRAYANMIMNNEVPRKSPKYLALFKNSVSGIKLACTSCTFTVT SVGDMAHKLNVNPSHRSSILPGLTIAMHSRHGQTRDRVHDR NVNMNYPSPSPPTNKATVKSAGATPAEPRHLLTPALAPALPSA STATPTPTPTPQALALPPLATGAECLNVDDQEGSPVTPEPE LASGGGSGGCVKQQLSVKLRVLTALCQNTQAEHFRNPQ RRIRWLRNRPQASQGENLEBKYLSEFAEKLARVLTQREQLP VNEETLFQKATKIGRSLBGGFKISYEWAVRFLMRHLTPHARRA VAHTLPKDAENAGLFDIFVQRQHNQDQLFLSMIVAIDEISLFL DREPLSSDRKEVALGTVGSGPEWCDVVLALDAGTVLPLTVLV RQGMCDANWDSILLEKESGVEDEIHEMLSTVRWQKHATQ RSKMLMVDNCHTHLSEEVLANLSASTPLPVPVQACSSKIQP DVCIKRTVMNLFHKWKRQAREMADTACISDVLLQLVLVNLGEV LGVIGDCPELVQSRFLVASVLPGPDGNINSPTRNADMQEELIAS LEEQKLKSGHSESSPTRPRSSPEETIEPESLHQLFEGESETES FYGFREADLDLMEI
6135	2	4256	FVHSGMADTLFMCBEEELPEWQKLSDVIEDSVVDYNSVDXT TTVSVSQQPSAPVP IAHASVAVGHLSTSTTVSSGAGNSDSTK KTLVTLIANNAGNPLVQGGQPLILITQNPAPGLGTMVTPVLR PVQVMQANHVHTSSPVASQPIFITTQGGPPVRNRPVQNMNVG IVLVNQGGQTVRPITLVPAQGTQVKPTVGVQVFSQMTVPVRPG STMPVRPTNTFTTVPITATLITSTVPSQSQQTSTPSTSTTP TATQPTSLGQLAVQSPGQSNQTNPKLAPSPFPSPFVAVIASPT VKRPVGTGENSENVAKLVTNLTIPSLGQSGPVPVSNSSAH GSGRTSGPESMSKVTSSIPVFLDQGGKRICPQNAQFRVTEAL RGHMCYCPPEMVEYQKKGSLDSESPVPSAQPSPSEKTPAVAS /THPSSTPIPALSPPY/TKVPEPNENGVDAVQTKLIMLVDDFY GRDGGKVAQLTNFPKVAISFRCPHCTKRLKNNIR7NMNMCHIVE LDQNGEVDGHTICQHCYRQFSTPFLQCHLENVHSPYRSTTKC KICWAFESSEPLFLQHMNDTHKPGEMPVQVQCYRASSLYSEVD VHFRMIHEDTRHLCPYCLKVFKNAPQGHYHMRHQRK\NVH\H CNKCRVQFLFAKDIEHKLQHRHTFRKPKQLEGLKPGTKVTIRA SRGQPTVPVSSNDTPPSALQEAAPLTSSMDPLFVFLYPPVQRS IQKRAVRKMSVMGRQTCLECSFPIPDPPNHPTTVHCSLCRYST CCSRAYANMIMNNEVPRKSPKYLALFKNSVSGIKLACTSCTFTVT

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			SVGDAMAKHLVFNPSHRSSTLILPGLTWTANSHRQGTDRVDDR NVKMYPPFPPTNKAAITVKSAGATFASPRELLTPLAPALPSPA STATPPPTPTHQALALPPLATGAECALVDDQDEGSPVTCPE LASGGGGGGVKKQELSVKLRVVLPAFCNTEQAAEHFRNTQ RRIRRNLRFTQASQGENLEGKYLSEAEKLAENVLTQREQQLP VMEETLFQKATKIGRSLEGGFKISYEAVRPMRLRHLLTHARRA VAHTLPKDVAEHAGLFIDFVQRQTHNQDLPLSMIVAIDEISLPL DTVVLSSDDKRENALQTVGTGSPNCDVLAIDLADGTVLPTLVEY RQWMDQANWDDSLLEAKESQSYSDIEIMELNSTRVWQKHTACQ RSQGMVNDCHRTLSEELVNLSSASTLPAVVPAGCSSKTKQLP DVCIKTKVKNFLHKKKEQAREHADTCAESDVLQLQVLVNLGV LGVIGDCFELVORSFLVASVLPQDGNINSTRNADMQEELIAS LREQKLKLSGHESSSTPRFSSPTEETIPESLHQLFGESETES FYGFEADLDLMEI
5136	1704	539	FGVRMALEGMSKRRKRSVQGENPDDGVKSGSPEDYRLGQVAS SLPRGEHHSRGGTGRLASLFFSLPQLQPVVVPVKLSALASA DLESEIHQKQOQRKNSOPGVKIVADRKLDDTBDTVVSQRKKIQ INQEEERLKNERTVFFVGNLPVTCNKKKLSFFKEYGQIESVRFR SLIPABGTLSKKIAIRKKIKHFDQNNINAYVVPKESAAATQALK ENGAQIADGFRIVRLASSETSRDRKSVFVGNLPYKVBESSAIEK HFLDCSILMAIVRVDKMTGIGKGFVLPFRNTDSVHLAKLANS SELMGKRLVWRSVNKEFKQKQNSRLKAVSKVQKQLNFTSKT AEGHPKSLPTGKAVLLKTKKKQKKSGRPKKQKQK
6137	141	2656	RALEKKEGQFRRRGALSGSGGQFRRRGVFFERFADPRERHHPG MNMLIVAMGLA(L)GLPGKAGELGHV(S)ILLAGEOLDLAKK YLWQGLFQQLYLDAGRHSPSPHGAALTAFKQGGELNAKALE SLCFDKMAPSHCAEHKQDPLQLSQYRQLKTAEDYQALNKDTEAQ LQHAGLRBAAGTFFPSPVFPAYEDIARNINSSCRPGPGAWRVV LEKPFQGDHPSAQQLATELGTTFQBEEMRYVDIYLGKQAVQALL PFRDQNRKALDGLWNRHREHVEIINKETVDAGRTSPYEEYGV IRDVLNHLTEVLTVLAMELPHNVSSARAVLRHLKGVFCALROL QGSAVVGQYQSTSEQVRELRQKPSFHSLLPTFFAGVLVHIDNL RRGVFTFLKSGKALDERVGTARLFFQNGCCVQSESGHNAAGS CCLPQLVPHIGHGDLGSPAVLSNRNLPFPLSESSVKEWEPFG LRLFGSPLDYVYAVSPVERDAHSLVSHIPHORNTFTTTHL LASHNFWPTPLLESIAHKAPRLYPGGAENGRLDPEFSSGRLPFS QQQFRLVPGPGPMPSPDFQLRAKYRSSLVANSWSEELISKL ANDIATAVRAVRPPGQHIALSGSSPVALPQQLATAHYGFPW AHTHLWLVDRCVPLSDPESNFQGLQAHLLQHVRIPTYNIH)AM PVHLQORLCAEEDQGAHYAREISALGANSSPDLVLLMGJADHG TASFPPQSTGLDGQQLVVLTTSPQCPHRRMSLSPLINRAKKV AVLVMGRMKREITTLVSRVGHPEPKWPISGVLPHSGQLVWYNDY DAFIG
6138	4587	934	RFSKLTDMQNAVQGVQRKGDVGLVHWQGDPTTSEVENLRFEL TDTSIELSAVKQGRFRLQTRSLIHELNLSHFEQRRRTICAL TIEAGRIKLLATDLTKTESVGRLEIQLODSKXMEFQRAEMIQ PQSTVTRTWQCEHKKLSKLSKRLQVLAQSEDPLELHRLINK ELIKELGOSLASNTQNLKELQTMADI)PHVIVRDNVNLKEQTE HLHROWEDLCIRVAIRKQIEBDRLTNVVFNENKELCANLQNM ENKVLQTADISIERMIKIQKDCMEENLFSENKILQKQMGDOL IKASNKSRAAEIDDKLNKINDRWQILEFDVIGSRVKIKETFAFI QQLDKNMSNLTWLIARESELSPKVVYVDCDQEIQRRLAECCD LQRDIEQHSAGVBSVFNICDVLHSDSDACANETSCDSIQOTIRS LDRMRNRCAMSMERRMKIETVRLWQKFLDDYSRFSDNLKSAE RTAACPNSSSEVLYTSAKESLKRFEAFQRIHERLTQLELQKQY RRLARENKRTDASRLKQMVHGGNQKNDLQRRVTAVLRRLRHFT

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			NORKEFGTRSTLWLTMTMDLQTLNVERFSSSDADDKMRQNG FQQTITLANKIDQLVPGRLIQKSEP\LDVAVLIEDELEELER YQEVFGRVSRPHRLRTICTPGLADEKEASENETTMDPREIQT DSWRKRGSESPSPQSLCHLVAPGHERSGCETFFVSVD\IPLE WHTGRGQSPSSH\EECEAQTY\SALSGKSIDGHSWHVSDS PSCPEHHYQWBDWNPFPVPASSSTPHKPPKLLLPOTDGG KKGPRVLKNGNQDEGLAGITTEQSGGAFRHEWMOAGELWIK LKIKQNLQQLNSDSITAITLWKKTEALEMLKWRPDSIDQRTS LRVKRLQELIKAFDTYKALVSVNVSSKEFLQTESPESTELQSR LRQLSLNWEAQGAVDNKGGLRQSLNQCDPQHOLSQNLMLLA SAKNRRQKAVHTDPKADPRALLECRRELQKELEVEROPVDM LQETNSILLINGHGEDCIEAEKVHVI\BKLLKCLREQVSDIM ALQGTQNPASPLPSEFVDSGDQPPATSVPAKRAQFRAVTRTE GEEETSRVPGSTRPQRSFLSRVVRALPLQLLLLLLLLLLACLL PSSEEDYSCQANNF\ARSFYPMRLVTYNGPFPT
6139	52	1131	LGDWVRSRTQGVLETPTSVLRRARGGCPPTDSKALPRLRGE TERRPWEASSWKTL\LAGWIGAASVIVGHPLDVTNTRLQAGVG YONTLSCTRVYREBSMSPFFGMSFFLASLAVNSVVFQVPSN TQRPLSQRNCRFPASPRFVSDLLSASWAGVSVSGGGPVDL IKIRLCMTTPPVSGRQPRFVSGSGSV\SDAPQVFCITCTTV RNEBLAGLYRGASAMLRDVFQCYCLVFPVPLSEVTPRACGV PSPCAVNLAGGMAGATSWGATPHDVVKSRLQAGVYLNKYGV LDCISQSYQKEGLKVFRRITTVNAVGPFMSAAMFGLYELSLQA IRGDHAVTSP
6140	594	136	RPELELWRLRSRWRPLAVPRRCRRNRNKEPFRAPQLSVTVWAP RCQRP/QPPAPEPSSPNAVPEA\PTPRAAASAALEPLQAPV SVAPQAEAEARSTPGAGSLGPETFRQRFQRYQDAGPREA FRQLREL/SPRONLRPDI\RTKEQ\IVMLVQEQLLAILPEAAR ARRIRRRDVRITG
6141	2	984	AQVPSRSPCKMPLKRLKKKAKSKETAGLVEGETPGAGGGSLS ASRAPARKLVFIAQLANGSATGRVGFSSSIQLYTAQIAGAETS PSEILCTLTATPKIMDKLGGQGLSD\FFAHYXGIEKEVNSY KSDHSLGTTITDNGVYAFKRIKDGVDVSVKTCVGDHISTY NGENIVGWRHYDAKLLKLEKKEELPTWKLIEPKQKQFELK ACKSSGKEICGRATLRLRSKGFATVEE\FSPTKAX\AIKID VLELYMGIRDIDLATTFEAGIKRVNPDPAVALDET\GDFAPP DEFVFDVNGVIGDAKRRGL
6142	116	502	EARGEQVGAKCGDAPHVENREBPTA\ICQGVMSKEERALNN LIVENVNGRNDKDEKQVANKGEPLA\PLNVSEYCVPRGNRR FRV\QPIQYRWDIMRLSEPOASRETNMERIGEK/RQLMEKL REKQLSIHSLAVSTDPPHHDHIDEFC\IMP
6143	2802	270	PMRIFLACPFWQGWKIKWNLLETSLSECKRLS\TQKLERQ Q\QLPVFKHRDSIVSTLKRHRVVVAGET\GSKSTQVPHFLLD LLNNEWASKNCHVCTQPRRISAVLNRVCDLBCENGPGGRN SLGQYIRMBSEACESTRLLCYCTGVLRLKIQRDGLLSNV/S FVIVV\HRR\SVGSDFLILLKHLQKRSDDLHILMSATVDSE KSTVYTHCRLRLSGRSYFVREPHLED\LEBGFVLEKDSBYC QKFLKEEBSVTINVSKAGAKKYQEVYPIQGAADLPFPYQK YSSTQHAILYNPHKINLLELLLELLAYLDSQDFRIBAVLI PLRGLAH\QQLVLLSNDRRFFYERYKVIALHSILSTOCDAAF TLPPGVARKIVLATINIAETQITIDOVFVIDGRTKENKYHES QMSILVETVFSKASALQQRGRAGRVGDGCFMYTRERFEGFMD YSVEILRVPLRELCLHMKCNLGSPEDFLSKALDPPQLQVIN AMNLLRKIGACELNEPKLTPLQGLAALPVNVKIGRMILFGAIF GCLDPVATLAAMTEKSPFTTPIGRDEADLAKSALAMADSDHL TIYNAYLGNKKAQKQGYRSEITYCRNPLNRISLLTLEDVQKE

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6144	1289	568	LYKLVAAGFSSSTISTSWEGNRRASCTLSFCEIALKAVLWAGLYDNVVKLIYTTGVDTSTKLACIVETAQGAQVHPSSVNRDLQTHGMLLYQEKIRYARVYLRETTTLITFPFVILFGDDIEVQHRERLLSIDGMIYFQAPVKIIVIFRQLRVLIDSIVLRKKLENPFMSLENDKILOITIELIKTENN
6145	1109	196	SGPSNHSQRVDVVKVVLGKKEYVQRTSLVERVYVHDFRVNGPYQNVASAGARHGQGGSGPPVICTGPDLPFLVAITGAAPVAKVMSVGRDVTVLGINDTAGSERVEMSLIYPRGAJAVICTGLTDSGSEFERAKFWVKELRSLSEEGCQIYLOTTKSDLLSEEDRRARVDFIDVQDYADNIKAQLFETSSKIVQGSVDLELPCKVADYVSVAAFPQWTEDKGVLDGQKPNPYFSCCH
6146	428	781	DGMDLELERDNTGRCLSSPPVPAVCRKEPCVLOVDEAGGDPVLGPWVYIACYCPLPRLADLEALKVADSKTILESERERLPAMEDTDFVGHVLDVLSPNLISTMLGRVKYNLSLSHDTATGLIQYALDQGVNVTVQFVDTGMPETVQARIQQSFPGIEVTVKAKADALYV/VSAASICAKVARDQAVKWKQVEKLDLDTDYG/SGYPNDPQD/TKAWLKEHVPEVF/GFP/QRVP/SWRTAQTI/LEKEAEDVIRSDSASENGBLRKITSYFLNESSGARPPSSHRVYLERGLESTTSI
6147	1	2304	LKKGKKEKBAQQVLEALPOPSLDQHHRSAGEEDGVPVLTEQKSRYYPGHEAHDQGGVWAKOSIIIDVDFDFTORTALIKGGGVEVLEIVTKERHEINIKQATRGCDLAFQWRLS
6148	3056	353	GTQLPFPSPGSGQSDSPGEPGEALPERRTKAHGMLKLYGLSEGEAAGRPAGDPLOPDTLNGAHDFPESVILDKLRSECPALQMDSEETDMVRQIRALDSMQTLVYENYNKFI SATDTIRKHNDFRQMEDEMRLATNMAVITDFSAISATLQQRHERITKLQGVALLLEKLQFLFELPSRLTKCVELGAYGQAVYQGRAGVLAQOYHLPSPRAIQDDCQVITARLAQLQRFRFREGSGGAPGEACV/ELLALGEPABELCEFLAHARGRLKELKENLEBELQSPAPDVLEFTDQ/S SQFVGGLCQVAAAQBELFAAQGPAGAEKLAAPARQLSGRYFALVERRLAQEGGGDINSILVRALDRFHRLLAPGALLAAGLADAATETVERVARERLGHHLQGLRAAPLGCITDVRQAALAAPVPAQKEGPGQARLLAVASSILSHIIRASLAALHFLTAZEVSPNKPFFRGEFCSQGVREGLIVGFVHMCQTAGSCPCS/SGKGGATTPALLLLLLRLCLDYEYATISYILITLDBQVILNQDQPTPTFVETLCARARETARKLLTHYVVKQGLVISOGLRKSVETRDNLSTLEFNRVAVAKVVEDTTAIDVQVPLRLAGVALTOGGTVFSGHGAAGAEIMCISLPGGDHCINASHGASSAVARASVREPOGNKSPRMNTTGRAGECLCPRSSFSAGDYDIPAPILPVEKRLRVQTEVRAGLIVLKLIRPQNSCILPLHSTGSGINSDHVPTK
6149	3056	353	VPAVGGTTFADGANGAEKPHYIYSCDLLINDVOLKIGSLGKREKQKSVKAVLEDPLKFSGLYQTCSDLYVTCOVFAEGKPLALPVRTSYKAFSTZNNWNENLKLPLVKYDLPENQAQVALTINDVYGGGKAVPVGGTTVSLPGKYMPROGMDLKVMPNCRSQMDQKPTRTPGRTSSTLSRDOMSRIAKLTAKHREQHNMVKVDMLDLTLPREIEMINESVRSSNFMYLGGGFCVKCDDKRYGIVYERKDGDESSPILTSFELNVPDQMSLENLVESGHHNLPRLSRSGPSDHDHKLPPSPRQDLNIVYTPSPKFPPTREGCLEWFEFYTLTNGDKALTKILTSVINDLPOGAQALMLKWKFMVDEBLSLSHYINTEYRIVAVARLQADDEDLWYLLQLOVAAKYENFEDIKGLEVEYKDSGSSVLENVNSGINSKIDSSQIT/SAPPPSVSSPFP/ASKTKVEPDG ENLEQDLCFTLISRAKSNSTLANTYVYVYVECEQDQTCQDQPKTHEMYLNVNRFSQALLKGDKSVRVMRSLAAQQTQFVDRVHMLKAVQRESGNKKKQNERLQALLGDNEKNLSVLELPLPLEPOVKIRGIIPETATLFSKALMPAQLFFKTEDGGKYFVIFKHGDDLRQDQLIIQIISLMKLLRKENLDKLTTPYKVLATSTGIGWQFICQV

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6149	1	1413	PVAVLDTGSGIQNFRRKYAPSENGPNCISAEVNDTTPKSCROY CVITITLGVGRHLDNLLTKTGKLP.HIDPGVILGRDPKPLPPP MKLANKENVEGGGTQSEYQEFKQCYTAPLHLRRYSNLILNLF SLWDANIPDIALPEPKTKVKKQKFRDLDSDEAVHYMQSLSD ESVAHLFAAVVQCHHKPAQYWRK
6150	372	37	RVDPRVREKGTANFINKGTSFASKQDRTGKRTSVQGVQVQKND ESESDPESDPPSPKSEEEQDDEVLQGGQDFNDDDTREPENL QHRPLLMDSDESEEEKHSSSDSYBOAKYSDMSVTRDSSGS GPTQDLNTLITLSAQLSSDVAVETPKQDFDVGAVPFYAVRAQQ PQQEKNEKNLPQHRFPAAGLEQEEFQVTPKAPFSGKXVNVQCHA VGPBAHTIPGPKSVDFVPGTTPQPFPLTSTKSKSESNEDLPGLVP FDEITGSGQQKVKORSLOKLSRQRTQKMSKENGKRHHGTPT STTKLTKPTYRTPERARRHKKVORRDSQSSNEFLTISDSKENIS VALTDGKDRGNVLQPEESLLDPFGAKP.FHSDP.LSMHPP.HOGL S.DIRADHNT.VLPGR.PRONSLHGSFHSADVLKMDDFGAVP/F LTELVDVQITPHSQSQSQPV\ELDPFGAAPPFSKQ
6151	1555	521	LSNIRKTYIDYDWEAKSIEIEIDHDVMTTEELHQINNFWSDSEYR LNKHGSVLNAVLIQAQALLIAISDINAYGVCEPDWNDNG QSQHFMQSGSGI.RITDITSGIF
6152	1366	648	DSKQSGSGFASLLHSGFRTITTYGGTGHVQQQFYGVTSFYSQT TPPTVQSGAQPGLYIQQQILPQGVVGPAAAVTITVAFGP QQPQLQSEWVWVNNLLDLPFSPFKPTIVLGPFWKADDEG KITYYHVITRQTQNDP.TWESPGDASLEHAEMDLOTPTYDEN PMK\ASKKPKTAADTSELAKKSKEVFRKMSQFVQVCINPYR KPDCQVGRITTTEDFEHLARKLTHGVNKLKYCKNPE\,DLEC NENVGHKTEKVIKKYKQFGAVYKPEDTEFRVTVPFGVGDGWS GKTDSEKRSKCGPFCSTPVSULLMIHHPGEFNPADV
6153	2	3368	NRWTSFSTWNGVALPFLCSTGFVFTTRQIARTTCGAVPAKCP PWC/DVHEPRQCPDCHGHGTCVDGHGQCTGHFWRPGCDELDG GPSNCSQHGLCTBTGCRDAGTQSGNCSSECPGHWGPGGQGRPC KCEHICPCDFKTGNCVSRVKQCLQPPFATLRAGELSFTPTTAM LAUTLAALFALLISTANLSLLLSRAENRNLRHGDYAYHPLOEM NOEPPLAARKTPQSGQGNPFED
			GRVQSGSGGVALLLMLICFVYSGSLHQLVLTNRNKNLLPKH PILVVRQKRAWITAPVALLSGEULSKENYIAKTHSDLAERGLKI TYKTYGKGITPPGIGFVFNKNDGELNFTSILLRWSYFPELLTS YALDARGCNVPELRLKVLINDNEPVQTDVFPVSGVELESA AHTLVMI.NATUADERNTLNSKISYRIVSLEAPYPPVFLYNDKT GRITVTSVTLDRREHSGYTLTVFARDNGNGEVTDXPKVQKQVQIR ILVDNDNI.PVVENKVLBSVVENQVNEVIRIKVFDADIEGSDN WLNAMFTFASNGEGGYSHIETDAQNBIIVTLKEVDYEEMNLD PSVIVANKAAPHKRSKYP.TPIPIKVKVKNVKGSHIFKGSVI SIVYSEMSDRSSKQIQNFQAFDEDTGLFAHARYVVKLEDRDNN I.SVDSVTSSEIKLAKLPDFESRYVQNTYTVKIVLASEIDYPRKTI TQTVLINVEDINDMCP.IKPVQVICHDAETVNVTAEDLDGHPN SGPSFSVIMKPPGMAREKNKIARQESTSVLLQSEKKLGRSEIQ FLISDNQSGSCPPKQVLTIVCEVLHSGCRCAQHDSTVYGLGP AVALMILAPLILLVPLLLMKCHCGKAGRGTPTPTIEMLHP WNEGAPPEDKVPSF.PVDVQSGSLVSENGVSGKAKRATNGSS SASIVKGQHEMSMDGRNTEHRSLLSGRATPTGTGTA.WITE TTTIRATGASRDVAGAAVAALNHEFLKHYPTDKAASYTTEED ENHTAKDCLLVYSQEETESLNASIGCCSFIBGLDRDF.DDLOI, KFKTLAEVCLGQKIDINKRIEQRKQPATETSMNTASHSLCBQTM VMSENTYSSGSSFPVPSLQENAEKVTQIEVITERSVSRQAK VATPLDPMASRNVATETSVYTGSTMEPTTVILGPSQPSQLV TERVYAPASTLVDPQYANEGTVVTVTERVIOHQHSGSNPLBGTCH

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6154	3660	2146	LQDVPYVNVRESEFLAFSSGVQPTLAMPNINAVGNVTVERVL APASTIQSSVQIPTENSTMTARNTTVSGAVPGPLPDPGLEESGH SNSTITTSSTRTVKHSFVQHSYS KKTKMKNLTQKTWNFGAMFKFTISDSKHLQVNSKLDLTDANK SDTAHISKIRITSILNGLQASESSAEDSPQEDERGAQDMNNGK ESKIDHILNNRNDLISKEEQSSSLLENKRVHADLVISKPVSK SPERLRKDIEVLSEDTYEDEVTKKRDKVKDDTIDKSKPKQIK RGKRRYCNTEBCLKTGSPGKKEKAKNESLCEMNSNSSSSDED EESTAKAMPTTKYINGLEEKRSRLTTFGVSGFSVAEKRIKLL NNSDERLQNSRAKDRKDWSSICQWPKTKLKFSDSOTAAEA SPHPAPPEEVAEESLQVTAEESSCSVLEKPKPPVNVSKPI EETKEVNVNRKAEPSSGNPBA*IPLEVLHLARHLQSL*QKGS RQSSSVTVSEPLANQOEEVRSIKSETDSTIVDSVAGELQDLQS ERE*LASRF*QCELEQ**SARTRS*KSIVSEKSEKSGRRK PIKKAEPK*SNSSGQKQKEGK
6155	859	121	HLLEPLRGRKSWITMKYVYFVLGVLAITFFFAUSSVQKEDPAPYLV YIKSHFNPCVGVLTKPSWVIAPAHCYLPENLVMLNGKFSRVRDG TSQITNPIQIVRYWYNSHSAQDLDMLIKLAKPAMINPEVQALN P\PTTNVVRPQTVCLLSGLDWSQENSGRRHPLDRQNELEAPVNSRE QKTEBQGGKSHRNSLCVKFVKVPSRIPGEVAVATVICKDKLQIE VGHFMGGDVGIIYTNVYKYVSWIENTAKDK
6156	5725	3984	GTSVTMKTKEHFSIILNLLGMLKKDNQDTRKLLMTWALEVAV VWKSSTVAPLCLPSFHKCKGLADTVEDVNIQLQACSLH ALSSSLPDLQRCVDVRCVQVHGGCTICRAGKILKSTPLGV FLSNNNHTEIQEISLALRSHMSKAPNTEHQDFSD/VISFILI GNSHRTGKNWNLRFYSQRLDKRDQSTIPNLLKTDVAVLWQ AWEAAQPTVLSKLRITPLGRAQDTFTQIEGIRSLAOTHLNPD DVSQWTTADNDEBHGNNQLRLVLLQYLENLEKLMYNAYEGCAN ALTSPKPVIRITFLYTNRQTCQDMLTRILSRIMRVOLLAGQPAVT VRHGDLLTETMKTSLSQGNLEVSINMVLEALCEHLCPETIQG IAMVSSSIVGKHLININSVAQAGRFEKASVEYORHLCAMTIG LCCISFDFKSVLTLASAGCKSASLHCLNGESKSVLSKPTDSS PEVINYLGKACCYISTADNAVQEQWGAHDLKKSTSTSLN LKADENYIKLSLFSBQGFVCEQTEQLLELPGENINLGAQSGKIK IDMKILRAN
6157	946	329	MANRGSYGLSRVQEKIKQYDADLENKLDWILILQCAEDIEH PPGPAHFPQKMLMDGTVLCKLINSLYPGGQSPKPKISESHAFK QMEISQFLKAAETVYGRVTTDIFQTVDLNBEKDMAVQRTLMAL GSVATKDDQCYRGESPEFHRIQAQNNRGEFSEQLRQGNVIGL QMSNKGASAGMTGYGMPQIM*DAASCP
6158	441	1482	LGLSLVLSLICKVIFSSQSLERAMKKNVLDVPLAQNFLGAQN PILSGKDHNRQTVGDPIDHVDKRTQ/RSKSPHKRKRKR RKRSRSHSRDRKDKTREREKIKERVKEDREKEREKEREKE KEKGNKDRDKREREKEREKEREKEREKEREKEREKEREKE QDEKEREKORSKEICEKRRKKKGRTPPRSVNARSRSRSSRE RRRRKSSSSRSPKTSKTIKKGSRSPPSRNREKDKKERED HLSREKERESTMSKSSNDKDEKRLKSNVTLKKEKNEP SVYSKVDKDCAPRTSENKIQHWGQCLNBERLSTKERV
6159	53	84	AVTAPLHTSLGDRAPVLYKQTEKSTCTCRRRQSPFPMGLTH RLJLCKYNGCAVSNVCRFWEGRPLPMIVPVPTLPSLPSVGSVC ITITGTLTFVKDPOLEVNFYTGWEDSDIAQFLRHFGPAM NSCVGPINRYEKCYVLPEDGKPPRLCTVVRREKYVMVNGVR IYNFAHRFPFASVKMLQVFRDISLTRLVLS*GRCVITAVQEF DVSVDCTTAYQPG
6160	1626	1790	AGAKFPF*F*RVADAQPTSEKEIYKQVNVVLKDAEGTILDLQS YRGAGHIEIRAIQHPADEKLQKANGAVVPLVLKLLKFPFESQR

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6161	455	1569	DEAALRGILGALTSTPSPYPTQHLREQALAQPAETLS-FLRFD ELKMINPAIQNDFSYRRITLSMRINNVPAGEGENVNNELANRM SLFYASATPMLKTLSDATTKFVSENKLNPLENI:FDCLSTWASVC RVNLETPEYRSRTFNBTETVSPCLKVMVGVII LDYHVPFGAFATK SKIDMKGCIVLKDQPPNSVEGLLNALRYTTKHLNDETTSSKQZ KSMLO*QLLTIVNKG PVSGSESLRRWASILRLMLGPFVAVS ILCEDGISH*LLKKH* KSHVLEPLSLALAEQCLALSLDWSYKTKORAGDQPLKIISSDS TQGLHLMAVETRERLQKVASHQAQCFEANTAFNYWHPEIVYS GQDGLLKGWDRVPPCKPLTSTKHTMCVCSIQSSEPHRHILLAT GSYDEHILLWDRNMWQPLADTPVQGVRIKWHPTHEILLAA CMESGKILNCKAMEERQBATVLTSHTLDPSLVGVADWSMLLT RSLQAPWSFSPNLOTKTADLKAGSELPTPCHECREDDGSH ARPQSGMKPLTEGRKNTWLGATAATRDGVNPEASDSAFSL LATCSFYDHALHLEWEGEN
6162	1	566	FTITAGAGASPMHRLTVNRLAEANKQHVRCRCLEFGHWTYB CTGKRKYLHRPSTAECLKALKKEKNRLLLQSGIGETNVERKAK KKRKSVTSSSSSSSSSSSSSSSSSEETS SSSSSSDSDTDESS SSSSSSASSTSSSSSDSDSDSSSSSQ*HQHR*QLR*RTTKEE ESEILHLSYTDGLKTLN KISTETECANVLRHPTQNGKARIMILLSVSLGRHWAFYTRFFL TVVVFVTFPPFHKE*VQKNFMKREBWEKMLMHVGRAD MHRLMNYLVTEGPKAAEKFMWGSCEPVSLETLDERIKIRE MILKGOIQEALINSLHPELLTNRVLYTHLQOQHILBLRQR ETRALEFAQTOLAEQGESRECLTMERTLALLAFDPSPEEPF QDLHITMQRCKVSWSEVNGAVLDYENRESTPLAKLLKLLWAQN ELQKKVKYKPMTDLSKGVIEEPK
6164	90	406	PQSPQRSMRQDKLTGSLRGRGRCLEKRGQGGVGTILSNVLRKR SCISRTAPRLCTLEPGVDTKLKFTLEPSLGQNGFQQWYDALKA VARLSTGIPKEWRRKVMWLTADHYLHSLAIDWDKTMRFTFNERS NPDDDSMGITQIVKDLHRTGCSYCGQAEQDRVVLKRVLLAYAR NNTKTVYCGQGNILAAALILEVMEGNEGDALKIMTYLDKVLPEP YFVNNLRALSVDMAVFRDLMLKLPSELQHLDTLQRTANKESGG GYEPLTNVFTMQWFLTFATCLPNQTVLKWDVFFEGSEIIL RVSLAINWALKEQIECCETADRFYSTWGRLTQEMLENDLLQSH ELMQTVYSMAFPFPQLAELREKTYTNTPTPATVKTSPVSGRHS KARDSDSENDPDDDAVNVAVGCLGPFSGFLAPELQYKQKIQKE PNEBQSLRSNNIAELSGAINS CRSEYHAFNSMMMERMTTIDN ALKRQYSRIKKKQQQVHVQYIRADKGPTVSLPSQVNSPVTN HLLLGKMMIMINRAKANAVIHIPBGTGGKISVPVYDLTKLMS PWRTHIRVHKKMMPRTKSHPGCGDTVGLIDBQNEASKTNGLQAA RAPPSGCTATAGREGSSPEGSTRTIEGQSZEPVGDADVDSA VKALGLAELNQRDAAEATELRVHPPCQRHCTPEPSPAPENKAT SKAPQGSNSKTPIFSPFSPVKPLRKASATARMLGLYGPRTPTPV HFFQMSRFSFKPGGNGSGP*EMVSSGNTLSRQLPGTQVEYQRN QGERGQ
6165	90	406	PQSPGRSMRQDKLTGSLRGRGRCLEKRGQGGVGTILSNVLRKR SCISRTAPRLCTLEPGVDTKLKFTLEPSLGQNGFQQWYDALKA VARLSTGIPKEWRRKVMWLTADHYLHSLAIDWDKTMRFTFNERS NPDDDSMGITQIVKDLHRTGCSYCGQAEQDRVVLKRVLLAYAR NNTKTVYCGQGNILAAALILEVMEGNEGDALKIMTYLDKVLPEP YFVNNLRALSVDMAVFRDLMLKLPSELQHLDTLQRTANKESGG GYEPLTNVFTMQWFLTFATCLPNQTVLKWDVFFEGSEIIL RVSLAINWALKEQIECCETADRFYSTWGRLTQEMLENDLLQSH ELMQTVYSMAFPFPQLAELREKTYTNTPTPATVKTSPVSGRHS KARDSDSENDPDDDAVNVAVGCLGPFSGFLAPELQYKQKIQKE

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			PNEQSLRSMNIAELSPGAINSCRSYHAFNSMNMENMTIDIN ALKRQYSRIKKKQCCQVHVYIRADKGPVTSILPSQVNSPVPIN HLLIGKKMKMTNRAAKNAVIPHGTGGKISPVYEDIKTKLNS PWRTHIRVHKMMPRTKSHFGGDTVGLIDEQNEASKINGLQAA EAPFSGCTATAGREGSSPEASIRRTIEGQSEPVPVFGADVDVSA VQAKLALRLNGDPAARETELAVHPCCRHCPPEPPSAFENKAT SKAPQGSISKTPFSPFPVPLAKSATARNLGLVGTETRTTV HFKPMRSRSPSKPGKMSGP*HVPSSGMLSRQLPGYFQETQRN GGERFG
6156	2	1206	HKIMRTVAGAGAEWKSLESCLKKLLPLDLQVRVLYGKELRK LDLPREAFEAASREDFLEQGYFAAEQLRPRVIVHVLQVQNR IPLPANAPVABQVSALHRRIKAVEVAAMGVNIICFQRAWTP FAPCTREKLPTWTFEASAEQDPTTFCCKLQADHDVVVSPILE RDESHGDLVMTAVVISHSGAVLQKTRIGNHPRVGDENSTYIM EGNLGHPVFPQTQFORIAVINICGREHPLNLMYSINGASIIFNP SATIGALSESLEWPIKARNAAIANHCPTCAINRGVTHEFPNEFTS GDGKKAHQDPGYFYGSSVYAAPDSRTPGLSRSDGLVAKLIDL NLQCCQVDVNFMTGRYEMVARELAELAVKHSYPTIVK*PAS VPLG
6167	1220	1844	LVAVTPSPLCAGDHQKPKQKGNPVLYSPEVDEALCACEBYSLN LQVNDIDKLEAPLHLPBQKSLPLQVYVYVHBAELRHLDTP VQRCBQILQQLQAVVPIQIMBQDENTWIVKPGAKSRGKIMCHD HLEMLKLNVGNPVMKDGKVVQVYKIERPLIFGKFDLRQWF LVTDNPLTVMFYRDSYIRFSTQFSLCNLKK*APLNLTPBQWS LFLQRYQVVEHGAELRHLDTPVQRCBQILQQLQAVVPIQIMBQ DENTWIVKPGAKSRGRGIMCHDHLEMLKLNVGNPVMKDGKVV YQKYIERPLIFGKFDLRQWFLVTDNPLTVMFYRDSYIRFST QFSLCNLKK
6168	84	1392	VHVPFSVSAMPKPKQAQAGGSKKAEQKKKERTIEDRTFGLKNKK GAKQOKFIKAVTHOVKFGQONPRVQAQSEAEKLLKDKDKKELQ ELNELFKPVVAAQXISKGAQPKSVCAFFKQGCCKGDKCKFSH DITLESKCEKRSVTDARDESELEKMDTMDNMDEKLESVVNNKRL EAEKPKPTGIVCKHFLBENNYGQWVWVCFGGGQICMYRHAL PKGVLVKKKKKKKEDIS*DLIERREKALPNTKLTLESF LAWKKKKQKIDKLQCDMERHAPKAKALVISGRVETFRP ELVNDDBEADDTRYTQGTGDEVDSDVSINDILDSYIFRVD ETGITVASLERFSTYTSKDKPKLSEASGGRAENGERSDLEEDN ERGTENGALDAVPDENLFTGSDLDLESRLTDLSE
6169	112	662	APAAWMAERPEDINLPAVITITIKALPCGVNISKAPRSYR AASVFLVYATSANNFAMKGRKTNLNASDVLASMBEMFQRFVT PLKEALFAYRRQGGKKEASQKKDKDKTDSREQDKSRDEDN DDEBERLEBEEQNEESEVDN*KGRETVAPKNVPLMRRRATCFCE APPCWAE
6170	62	667	STKVMLENTGRIAGCTVFTGASHSGIKGATALKAAGKAGINAVIA AKTAQPHPKLLGTIYTAARETEAVGGKALPCIVDVRDBEQISAA VEKAIKFPFGQIDILVNSASALSLNTLDTPTKRLDLMNVNTR VLASAKCPTPLKKSQVANIIPNTSPPLNPNVNFQHCGRN*V G*QGLCLICFELNLCNSDVITICT
6171	382	941	HYKGSVLELCIDIRPCHCTFFPLPLSTTVIVCSGPA/ATAST MNAEFSKTSSEKDSQRPKEANWNPQKKK*GLRBSRRRAN SGMDIFGDSFAAYFPVLQVHQVLALESQEAIVGVNDVDRDILD RIATEAGHLAHYKCVTITSRDIMNAVCLLLPGKMGKLAESQGT NATLRYTKSK
6172	651	54	GLCRAGGAHRPSTRTHVAAALKMLRREARLRREYLVRKAREEAR SAQERKRLRLRALENRLIPTLRREALAQGSLEFDDAGSEGV TSHVDDEYRWAGVEDPKVMITTSRDESSRLKMPAKELKIVFPGA

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			ORMNQRHEVGALVRACKANGVLDLVVHEHRRGTPTVGLVSHLP FGPTAYPTLCNVVMRHDIPDLGTSEAKPHLITHTGSPSRIGKRV SDILRYLFPVPKDDSHRVITFANGQDYISFRHHVYKKTDRHNS LTVGPRFELKLYMIRIQTLEQEATADVSWRHHFYTNTPARKRVF LSTE*RAPRPLGQLL
6173	3	288	SVNIREVQVLSQSMPLTPIQAVLGRPFYMCVECGKCFGRSSHL LQQRHITHTEKYPYCSVCGKAFSPQSSVLSKERTHTHTGEPYECN EOGKAFYRSDLAQHHKTHNGEKPHCELCRKAFTQLSHIQHQ RIHTGERPYVPCPLCGKAPNHSVTLSRSHRVHTGEKPHRCNCGK TFSVKRTLQQRHITHTEKYPYCSVCGKAFSPQSSVLSKERTHTHTG GEKPYECSECGTFSHRSTLMNHERINTTEKYPYACVECGKAFVQ HSHLIHQHKVHRL*PTCVISVGSALAGVPTSFSISVSTLERSP NCAVYVGRPSARAQSLVNTGQPTQVRSNPNVMSVEKPLE
6174	1050	959	FRPPGKRMVAGLONPGLPGSTRHSVGMVGLGRLTGVAESKT RDRHCADLALAPLGDAOLVLRPRIMNANORSVARAEPLGL TAEVYLVDLIDKPLGRRLKLGSSARGHNSRSCISCLNSNA MPLRLVIGRPAHPAEVAQVHVLGCFSPAEQELPLLDLROTOLI LDHITRERSQGPSLGP*H*WFSKKA
6175	2204	334	RFFRADPSRSQQHRAEGOLGAFSGFLRAMAPVGNRKNQSTEG DALDPASPAPKAGKQNGPISLSPEAGGEREREDEGEREEQ APLYSLYKPKERHTIENVPHLPGKQINMHTKAVSKGWAYE LVTGRIMXRVYHNLGGSPGTSAGCTERHVT*RLVPLTRALK GDDDKPLPTSKPREQYIMAKENRGDGDATERKKAKEERMDQW MPGKTKADAADPAFLPSQEPFNRSTEQQLASGSSVSPVGSAGC PEAYKRLISSPYCKTHGIMSPLAKKLLAQVSKVEALQCQSEG CRHGAEPQASPAVHLPSPQSPKGLTENSRLTPQEGLOAPGG SLREEAQGPCCAAPIFPKGCFYTHPTVPLKPVSGHPRDFFSLIK DGVLLGPPGKEGLSVKEPQLVWGGDANRPSAFHKGSSKGLIYP KPKACVSPMAKVPABSPPLTPPTPSSGLSGKSLTEGAAHS GKRLRAVSPFLKEADAKGGAAPAGSLVSLCLGPAIGVPPPEA YRGTMLHCP LNFITPGPLKGQALPFPPLVIPA7PA7PFLATA3 PSFMAAGIMHFFPTSPDSALRLHRLCFPASAXNAPV7TYTAAPHF FLHATKL
6176	1040	402	PLSALLNAAEWHVIOQIYAGSQTSESLPCKGHTGNAWKLLS GVREGGTQVDTPOIDEMAYNSHPTDHRPATKGLQWPLHQTQV SQDSFGRCQLAGYFCHVPSFGTQHLQACTPRLGSLNSRQLAK AFVGGGPLLHGDITYSAGDRTYHNTAAGTIVHLRIGILLRFPD RYGVEC*GTLPPSTSPSTPRTPSDGGGSHSGQRHL
6177	1400	992	VPIESLVGKVINPFLIAPYCCSGKRPKHSILHRCFGFGLNDPN CSHCYLDQIKRSDPLGSGYSFHEVAISTNSERKMQPSSMQAL PSQ*PYWTDPRFALVPCSHRPDVERSRPGLPGTSGCSDRFP VCP1
6178	1027	254	STORGIGIGVAREAAISLVGRRAAGTGNALLCLVCLTAALAGLCE HCHSNFSKCFSPYKHHVNFKSNWVGDIPIVSGALLTDMSDETME LHLAIPAKITEKLDQVATAVTQMDQLYQGMYPFGYFENELR NIFREQVHLIQNALIESKIDCQHRGCIPOETISCNCTDSHVA CFQNCSSASQWKSACGLLNTINNWHQDQTSMRSPSSAFSWDG TERADAPFVLPALRCLEPPLHNLISLEDA*CLQKH
6179	806	276	KGRIRAGNGLSGSRRHNDWPLACKSPSLGVPLRIGLIRITL PPPKVVDWNEKRAMFVDMIGLCNFRCEPRLGLPILWLRG WKNHILQRCITRKRDVMSRFPADDLNLNAYKIRYLYKHPRHKK FR*KRKLLESEKARLSPPWRRTVLVPEVKRLCFSVKNQGFPG
6180	156	1833	DHHLKAASTTHVCAKNIPALNPTKCLCE*ATATSSSECCO* SHLSLCLPATTSGLTPNEMIPSKERQNTAERILRVCMADIGAL SVVSGKEFLKLAQTLVDSGARYGAFSVTEILGNFNTALKHLPR MYNOVKVYVTCALGSNACLGIGVTCESQSGPDSCTILATYCAE

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			GNHIKSYVLGVKGDIRESGDLVHSHVQVNLSEPVSEIRTVYV TDCRVSTSAFSGKAGMLRCSACALNSVQSVLSKRLQARSMHE VIELLNVCELDAGSTGLAKETPGSLEETSPFPCWNSVTSLLLV HRYEQICEFYRAKKNLQSLNKHLLNLAAITLPVKQAV-E LSNBSQPTLQVLPTTVRLKELFTAGANDAGTIVSKLCHLEAL KENFKVHPAKHVAAILDPOQKRLPVFPFQHEIIGKVCBLINEV KESNAEABEDVPAKKPRAVNEPRAQEDDLKGNHVEYDYLQ PLFOATPDLPQYKSCVTQKHTKLAKLAFWLLAVFVNGARSGCVN MCEQALLIKRRLLSPEDMNKMLFLKSNML
5181	169	1032	TRTLLSPVLLGPRKKPARKKPNGLPALDANLQFVRYKSLYLF YYLLQFGCHSWIFTNMTVRFPSFGKDSVMDTVFVAILVMRLCQS VSLLELHHIYVGIESNHLFRFLQUTERIIILFVITSEOEVE KYVVCVLFPVWNLDMVRYTSMLSVIGISYAVLTWLSQTAMP IYPLCVLAEAFIYQSLPYFESFGTSTKLPDLSIYFFVVLKI YLMWLFIGNYPTIYSHLYSRRDLIGTFPIKKKM*STAFQCDTR KDRWLQCSK*NTGSLVKEFLVF
6182	1769	1224	AS*IDYQNTLLKBFOLTEBTKRYLTCSLEBONAAAY*PDCI VFPFGSSVNTFGKGLCDLMDLDEBTRNLSAHKIEGNLFMEFQ VNPFGSSLDATQKLSLVGECLDHFGFGCGVGVOKILNARCLPVR FSGQASQPCDITNMRALTSGLLYIYALDSRVVALVFSVR CKARAHISITSSIPAMTINSLTNTWITLQRRAPLFTPLDLSL KTLADAEKCKVIBNICTFVRDLRKPSONTLELLLEKFE YRGNFAFDKMSINIRQGEQNKPDSPPLYQNPFTSLNISQV SOSQLQKFDVLARESAWILQBEDTRPSISSNRPGVLVSLLLPS APNRKSTFKKSNKFAETVKNLLESLGKRNTEPNTKTSKRTI STQT
6183	1118	452	HLDRYKSPGSGSSTPAPPSHLLYLLFPQSTRNMGCCGSGC GSGCGGCGSSCGGCGSGGCGSGGCGSGCGGCGSSCGGCGS RCYVPVCCCKPVCNWPACSTSCGSCGSGCGGCGSGGCGSGC GSGCGSQSSCKPCCSSGCGSGCGSCCKPCCQSGSCVPC CGSSCKPCCGSNCCVPCQCKI*GSGRPSGFSCLVAFPLM VP
6184	1	2191	IVTVREHGGAPVAPVGVVSVHAKRSQAGFSGGGGGGARGAE EPPPLQANLVADGFRDFFPSISDQFVLLPLANVALIDYTE PLTATGVOETTFVCCNAAQIKHLLKSKWCRPTSLAVRIITS ELVRSIGDVDRVDKALVRSDFLLVYGVDSININITSLALSEHR LRRKL*KNVSVMTMIFKSSPSHPTRCHENNVVAVDSITNRYL HFQKTQGLRRFAFVLSLFGQSGDGEVRYDILLCHIGISCPOVA QLFTDNFDYQTRDDFVRGLLVNHSILGQIHGHVTAKEYGARVS NLHMSAVCADVIRWVYPLTPRANFTDSTTQCSHTSRHNIYRG PEVSLGHGSIILENVLLSGSTVIGSNCFITNSVIGPGCHIEPGD NVVLDQTYLWQGVFVVAQAQIHQSLCINAEVKERVTLKRSVL TSQVVVGPNIITLPGSVISLHPDAEEDDEGFEEDSDSGADQEK DAVKMGVNPABVGAAGGVLWKAQMMMEKEELQNNLWGLIKI NMEESESESESGMSDSEEPDGRSGSPQMDIKVFQNEVLOTLQR GKSNISCONIVLEINSIKYATNLSKEVMVQLSHVLEFPPLQ NOSPDSRYCALLPFLKNSVPFRNTKRAADHLEALAAIED FFLKEHALGISMARVAFVLELLAETLISWFSQRDITDKQ QLRKNQQLQRFIOWLEKAESESSD
6185	791	44	PCTSCVLMATLHLPASTRKAPQARECGMISTEKQKIGVGTITFG IFPILFOTLLYPDSVLLAGNHLPLTGLSLIIGIKRTTFEFTCR HKLKGTISFLKGVVIVILLRWPLLMFLETITGFPSLFGKFPVPA GFLGNVCNIPFLGALFRLQGTSSMV*XTMSNLNLDHMLKGA REMEFPFPGSPALITSPYTPGPPQVQKERNGAEQLTSNPQVDSR GCGEARNQTPRRLQGWHTLTLYLWEEK
6186	569	238	VYGDSSNTNTHGABERNRKLKIKHKLCAQSRDLVNGALFNA

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6187	1701	771	KERKVENKVENKADTEEVFNNSPTNQEKMPSTAILDFSGSVIS NIRNQMETLHSQPHQENLCTENSFSLINLLPINAVEPTSSQOI PHRETSEANKERRKMTSKSSSENIYSLPITSFITAUSLHDIKD LEDCLMVGLFTCGDIAPNLTIRIFTSNSELKGVCSVGCYHLLSE EFENQHKERTQEKWGFPMCEYLKBERKCGNRNARMSACIALERY AAGQGLPTESLFYRAVLQDIKD CYOITKCDRHVKIYKSCSSF LDYVRRSLKKGLDESCLPEKIINNYEKYKPRMNELEAFNMLK VLAFICIST:ILLDRICLYLKEQEDIAWSALVLEFDPVKSFRCA YVALKKQQ*PFLKQIIRCSLDSAGACAEVSVDGGPALRDAP PSSGRVGRVD
6188	238	1534	DAWGPETRLARILNPDSPFIIPRQRLPLEATPHNPEKASCPA AAPLNERKPHVLGVGTSGVAALKLPLVSLYLLIDPLEVAUVVT ERAKHFYS PQDIPVTLISDADENWEMKERSDPVLIHDLRPNADL LLVAPLDANTLKGVASGICENLLTCVMRANRDSKPLFCPAPANT AMWEHPITAQVDQLKAPGYVEIPCVAKLIVQDEGLGAMAENVG TIVDKVEVLFGHSQFGQS*PGISVMGVPLYSERVAQKSVKDV GKIGGYPHLLNGGPAISLPRGQACSRLNMTGPGILSFPQPGRAA A
6189	1297	793	KGFVNAQPLMAELQVS PQWKAPEMSQICLSGHPSA*GPRNASH NIGVFICIRCAHIGRNLGVHSIRVRKSNLDQWTEQIQCMQEMG NGKANRLYEALPETERFPQDIDAVEGSTRDKYSEKKYMDRSLD INAPRKEKDDWKWKSFPVEKLEFPVVEKVMQPKKEDPQLP RKSSPKSTADPMDLLGLDAPVACS IANSKTSNTLEKDLIASV PSPSSSGSRVVSMPMTAGSAGSVENLNLFPPEGSKSEIEGKK QLSKDSILSLYGSQTPOMPTQANMAPACMAYPTAYPSFGVTP PNSIMGSMNPPVGMVAQPGASGMVAPMAPAGYMGNGQASNMG VPNGMNTQAGYMGHMAJAPQTVYGVQPAQQLQNNLTQMTQOM AGMNFYGANGMNYGQSMSSGNEQANJTLSPQMNK
6190	66	1309	LGEFLGDLCELI PGDVQQLQNGEVHPTGAQGSAAQSVAGEVQL TQLSHARQPS PQSQGLIALLDQHMDSIRQPRQHVQPVARZVQ RAQQAQLAEGVAHWMGDAVVAEVELLQEVGGKVFAANACDL VVDHGBHAAKRAQTHALGRVIVQVRRVQPLEAL*RVPSGLPR FVAPMILLHMQITIGREDPATYFLERLNSLNRITSPOVHRD APRKLILRLSRLDGNRLHMLPGLPFRVHVLKXENELALALR GALAGDAQDLRELVTSNRLSRALQPARVLDLHLQLLELQNGQ LREIPEGLPESLEYLYLQNNKISAVPANAFDSTPNLKGFLIRFN KLAVGSVVDSAPRRLKHLQVLDIEGNLEPGDISKDRGRIGKXKE BEERDEVEERETR
6191	1212	1511	ILVGNVSLFLSAEYVCHCSVVS LNVRNCRQITLQGLERPGVQ GLRCECTCKRGFYLYNTSLGLQPCDCS PHGALSIPCNSSGKQCK VGVITGSCIRCDQDGYVGSKNGCLPCQCNRRSACDALTGACLN CQENS KGNHCECKRGFYQS*DATKECLRCPSAVTSTGSCSIK SSELEPECDQCKDGYVGPNCNKGNGYVNFDSICRCKQCHGVY PVKFPKICKPESGBCINCLANTQFWCENCL*GYVHDLRGNCIK KVLTPPBGSTILVSNASLITSVPTPVINSTPTPTTLQITFSVS TSNSYSLALDVNTQENIILLTVILLVVLGMSFVGAVMYKX YQNRKLNAFPWTLIKEDNISFSSYHDSIPADVSGLLEDDGNE VAPNQGLTLLTPHNYKA
6192	3	950	VNLCHGGLHLSTHILGIRPSMR*FLFLMLGFPHITPQQQPKFS MIDWIKKIWYIIMEYVATIKRNEIMPAGTWMBMRAILLKLM QDYMFSLSGS
			TRGCNKNKAGKKNVLSLAVYADSFPEDQDEAGTEAVASAAEE KGLVSDAYGEDDFSLGGDEDDGYEERDENRSQSEDDDSYK PEADDPKDNTFAKRRDPQELVASFSERVEVMSDEIKIPPEPPG RCSNHLQDKIQLYERKIKEGMDMNYI IQRKESFRNPSTYIEKLI QPCADIELGTRYPKDMFDPHGWSEDSYFALAKAQKTENDLKEK

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			AKKGRTRIEPVATGTTKGGTTTATSTTTTASTAVADAQKRKSKW DSALPVTITIAQPTILTTTATLPAVVTITTSASGSKTTV-SAVGT IVKKAQ
6193	3	950	TRGCGNRKAGKKNVLSSIAVYADSESPESDGEAGTAVGSAABE KQGLVSDAYGEDDFSRIGDDEGVEEEDENSRQSEDDDSSETEK PEADDPKDNTAEAKRDQQLVASFSEVRNNSPDEIKIPPEPPG RCSNHLQDKIQKLYRRIKKGMDMNYIICRKKERFNPISYKLI QFCALDELGTNYPKDMFDPHGSSEDSYEAALAKAQKEMDKLEK AKKERTKLEFVYOTKGGTTTATSTTTTASTAVADAQKRKSKW DSALPVTITIAQPTILTTTATLPAVVTITTSASGSKTTVISAAGT IVKKAQ
6194	3	950	TRGCGNRKAGKKNVLSSIAVYADSESPESDGEAGTAVGSAABE KQGLVSDAYGEDDFSRIGDDEGVEEEDENSRQSEDDDSSETEK PEADDPKDNTAEAKRDQQLVASFSEVRNNSPDEIKIPPEPPG RCSNHLQDKIQKLYRRIKKGMDMNYIICRKKERFNPISYKLI QFCALDELGTNYPKDMFDPHGSSEDSYEAALAKAQKEMDKLEK AKKERTKLEFVYOTKGGTTTATSTTTTASTAVADAQKRKSKW DSALPVTITIAQPTILTTTATLPAVVTITTSASGSKTTVISAAGT IVKKAQ
6195	736	235	VANGLQSNMPPFYCYDCYTYLTHDSFVVRKTHCSGRKHENKVD YIQKNBEGAQSLIDKTTAAFGQKIKIPPTFSAPPAGAMIPPP PELKLPRFGNMPAHMNGOPFMMWMPPPGMMFVGPAAGMPP PMGGMPPMCEGPPMWRPPARPMWVTPRGPWTRDR
6196	1512	623	RTGTPRSAAVYRNILNENAEQVINSLEARNLGPETPLTQEGEDH ORLLMGLMVSLEKDMFLRLHQQVEKKIKQWLVLDISKLLDLIC HIVETNWRKHNHLSWVLHFNRSRGAFAFVHMLNTRLEATNSL FLPLPPGFHTLHTLIGVCLPLNLLHCIDSGVLLLTETAVIRL MKDLNTEKNEKLFPSIIIVRLPPLGGKICRLMDHPMSNIIER NHVTRLLQNYKKQPRNGMKINKSSFVEFLEPNLYFIELTLDIESS NQALYPFEGHDNVDAEFVEEAAKHTAMLLGL
6197	3	819	ADPEGTSEAVMSRYTRPNTSLFINRDAADTRFDLREREFRGY PIVDVYIPLDPYTRRPGFAYVQFEDVDAEDALYNLRKNIQV QGISIQAGQDRATPGQMSKERHPCSPDHRHRSRSPQRSTES RSSGWRNRSDSLKSRHRRPVSIGSKSRSLPKRSTSAQ SRTFRNPPSGRSRSLKQKRSIQKQSSSPQKQTS9GTGS RSHGRHSDIARSPPCKSPGYTNPETVYQKSHFSHRSRSL YRHKSW
6198	111	1912	SEALSPSFPSPACFLRLKLPALSDGLDHPDITLGNVYEGARSE RENHIAADDSEGGALDMCCSERLPGIPOPIMVMEALDEAGLQDSQ REMPPPPPSPSPDPAQKPPPRGAGSHSLTVRSLLCLPASQFL LAGVILNFGYGHISQGNATHLVSSLLTLKQLEPTAWLDSGTW GVPSLLLVFLSGGLVLTTLVHLLRTTPPEPTPLPDRDQRQSV SRQPSFTYSEWMEKIEDDPLDLDPVETPVFVQVMDIKPEADP TSLTVKMGGLQEREGSNVSLTDMCTPCNBEQGYLMSPREES AREYLLASRVLQAELEHAKALDPFLQAEFFIIPNPNVDPKRY DIPGLVRRNRKTLIPNHSKVCULTSPDPDPLSSYINANYIRG YGGEEKYIATKPIVSTVADPVRVWQIUTPIVMTNTRMN RKCTEYWPBEGQVADGVEITVQKVIHEDYRLLSLKSTIER GLKHVWPIENPDQKTPDAPPLHLHVRVEEAAQCEGHICAPII VHCSAGIGRTGCFIATSIQCCQLRQEGVVDLTKTQCLRQDRGG MIQHCQYQFVHHVMSLYKQLSHQSE
6199	144	1211	MARENJESSSSNNKQARDIKKTEFPKSTIGTAPSRVLAEBKA TGKLFVAKCIPKALGKSSIEINEIALLKHNINVALEDIY RSPNHLXLMVQLVSGGELFDRIVEKGFYTKDASTLIRQVLDV YLLHRMGIHVRDLKPNLLYYSQDESSKIMISDPGLSKMEGKSD VMSTACGTGTVAPVLAQKPYKAVDNCISGVIAVILLCGYPP

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6200	702	96	FYDENDSKLFEQILKAEYFDSFVDDISDSKDFIRNLMNEKOP NKRYTCBQAARHPWAGDTALNKIHSVSQAIRKIFAKSKWKP AFNATAVVRHMRKLLHSGSLSDSSNASVSSLSLASQKDCASGT7 HAI*
6201	2809	2383	LPEVPHSLRPVVKPHLCCAQPAVRVVRASLEKLVFDDLYTLMPFF VVDTHVDPFPHKSSDGTVRDRRQGVRLYFEPVVKRLQSLIGV PGAAASRTSEIRGANQLLELFDLFRYFVREIYPGSKITHFERL CQKGTGIPFSQMIFFDERRNIVDVS KLGVTCIHTQNGMNLQTL S CQLETFAKQGTPLRSSLSESPFA
6202	2	426	INADRAAVASSLLSEPTAKAPQKQKREKHSWTFNPLDLTHVE DGI FDSNGFEOLFREKIVKNGKCNLGNVHMERFNKITTUVSE KQFSKRYLKYLIKLYLKNLDELVRVVASDKEITYELRYFQISQ DEDSRSRSD
6203	419	2550	RCRPFPTATGAAASRPDRSPFOTSGSEAAAGAGARAPASQHPA TGTGAVQTEAMQILGVIDKKLNLLEKKGKLDYQERMNKGIR LMQDQLDAVKYQEVTTNNLEFALKEQSLQSDIQKTIKKA TREGQMRBEAQKRLKTVLELQYVLDKLGDDEVRDLTKQGLNGV PTLSEELSLDDEBYKLVDPRDMSLRNEQYEHASITLWDLLLE GKRPVQCTYKVLIVERVFGSNYFSTHNNQGLCEBEEAA SAPAVEQVPEASPEASETEQSEVESTYVQKQFMASTQETS GKRPQVDEWTVETVEVMISLQQQQAASPSVPEPHSLTPVQAQD PLVRRQVRQDLMAQMGQPYNFIDQSMILPENQTLDEALVSAQPM NPTQNMMPQLVCFPVHSESLAQPNQVQVPEATQVPLVSSTS EGYTASQPLYQPSHATQRPQKPFIDQIQTATSLNTQTATASS LPAASQPVQFAGTSKPLHSSGINVNAAPFSQMTVFENNAFV PUNEPELTKQNOQYASYNOSFSSQPHQVEQLTQEQQLQTVVG TYHGSFDQSHOVTGNHQPPQNTQGFPRSNQPYNSRGVSRGGS RGARGLMWYRGPGANGFRGQGYRPSFNTNSQYTSQGSAP RHYSGYQRDGYQNFKRGSGQSGPRGAPRGSGPFRNRPNGMFP MNTQVM
6204	2933	787	CTHRLISLLGRALIHENFENLANKIQESAAHNFPCPAYDCQFQV PDDIKSVSKEMDKRYLPDIAFVNBNPAIKCFPTPCDRAV RLTYQCSNTSGSDTSLPFLRAPADCGKHLPCWELCEAHSE CDQCTWKNMLQKITEMKPELGVVSEAYDAANCLWLLNISKPC ANCESPIQKNGCNHMQCAKCYDPCWICLBEWKHSFVHNEVI YRCTRYEVIQHVESQSKMTVEAEKHKHRFQELDRFMHYTRFK NHRHSYQLBRLLKTAKEKMEQLSRALKETBGCCPDITFIEDAV HVLLKTRILKCSYPYGFPLEPKSTKKEIFELMQTDLBMVTEDL AQKVNRPYLKTRPHIKIKAACLQKQKQEFASVARGVAPADSP SAPRPSFAGTWDWBYLGFASPEYAEFGYRRERQRRRGDVHS LLSNPDPDEPSESTLDLPEGGSSSRPQTSVVSASMSVLHSS SLRDYTPASRSENGQSLQALSDDDDPHILLAIQLSLQESGLA LBSSTPDLANKSLQIGITSLPSLDSVPANTDGFPAALSSSE LLELGLSLMRLGARDPFTSTLSSHPLBSLQDCPSSESDS AGQDPNINDNLGNIMAFHNDNPGSIALIPPAETESADSGQLP CIKDGSGVGLVDELPLEDSNPFEDASVSDRGCTIBENPLENI PGGQKHQPM
6205	1	1200	RAHRCMALEVDMDGQLSDSDSDMTVAPSKPLQLPKVLGGD SAMRAFQNTATACAPVSHYRAVESVDSSESEFSDSDSDSLWR KRQCKFNPFPKPFPPQFGSSQKPPVAGSKKINNIWGAVLQEQN QDAVATELGIEMGCTIDRSQSETYNYLLAKKLRKESQSHTEID LDKELDEYMEGGKKQSGKEENQOHLKKKPVKDLRGNRPFMN

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			YKGRYEITARDSQEKVADEISFLQEPFKDLARVVRITIGNKKA IELIMETAEVEQNGGLFIMPNGSRKRTTGGVFLNLLKNTPTSISEE QIKDIFYIENQKEYENKKAARKRRTQVLGKKMKQAISLNPQED DDTSRETFASDTNEALASLDESQBGHAPAKLEBAEAI EVDHSHD LDIF
6206	10	1442	TIISERRERSCLHVCIRCSDVVEVMSGLVGLCSHASNIPCLQGS APCLLCRCPCSGNMSVTYRLIITAFLLVGVCAVCMIPGMBEQ LAKIPGFCENKGVPCNLLVGVKAVYRLCPGLMAYFLLLSLLM IKVSSSSDPRAAHVNGFWFFKPAALAIITIGAFFIPEPTTTTVN FYVMAGAPCFILITQLVLDIFAHSWNESNVEKMEBGNRCWYA ALLSATALNYLLSLVAIVLFFVYVYTHPASCENKAFISVNMMLK VGASVMSILPKIQESQPSRGLLQSSVITVTMYLITWANTNEPE TNCNPSLLSIIGYNTTSTVTPKGGSVQWHAQGITGLILFLLCV FYSSIRTNNNSQVKNLITLSTDELTIEDGARGSDGLEDGDDVH RAVDNERDGVITYSYFFHFMFLFVLTIMTITWVRYEYPSREM KSQNTAVVWKISSWIGIVLVNTLVAPLVLTNRD
6207	2924	1471	TVMAEATPGTTATTSGAGAAATAAASPTPIPTVTAPSLGAG GGGGSDGSGGGWTKQVTCRYPMHGVCKEGRNCRYSHLSDSPY SVVCKYFQSGYCIYGDRCRYEHSKPLKEEATATLTKSSSLAA SSLSISIVGLPVMNTGAEARSNSNFATVGAAGEDWNAIEFVP GGPYCGRTAPSCTEAPLQSGVTHESSEKEQTAVETKQKLCPTAA VGECRVGENCVYLHGSDCDWGLQVLLHFMIAQCHIKSCIEA HEKDMELFAVORSEKDMVCGICHEVYVEKANSERRAFGLISCN HTYCLKIRKWRSAKQFSKIKSCPECRITSNFVIPSZYVVEE KEEKQKILIKYKEAMSNKACRYFDSBGRGSCPPGGNCFYKHAYPD GRRESEPRQKVGTSRRYRAQRNHFNELLIERENSNPFDNDEE VVFELGEMLLMLLAAGGDELITDSEDEWDLFHELEDFYDLDL
6208	2924	1471	TVMAEATPGTTATTSGAGAAATAAASPTPIPTVTAPSLGAG GGGGSDGSGGGWTKQVTCRYPMHGVCKEGRNCRYSHLSDSPY SVVCKYFQSGYCIYGDRCRYEHSKPLKEEATATLTKSSSLAA SSLSISIVGLPVMNTGAEARSNSNFATVGAAGEDWNAIEFVP GGPYCGRTAPSCTEAPLQSGVTHESSEKEQTAVETKQKLCPTAA VGECRVGENCVYLHGSDCDWGLQVLLHFMIAQCHIKSCIEA HEKDMELFAVORSEKDMVCGICHEVYVEKANSERRAFGLISCN HTYCLKIRKWRSAKQFSKIKSCPECRITSNFVIPSZYVVEE KEEKQKILIKYKEAMSNKACRYFDSBGRGSCPPGGNCFYKHAYPD GRRESEPRQKVGTSRRYRAQRNHFNELLIERENSNPFDNDEE VVFELGEMLLMLLAAGGDELITDSEDEWDLFHELEDFYDLDL
6209	1758	829	ERLCFFPKQSKTYSYNSYNKCSGRFPFOESNTHVTHVCKQGR PLGIYRKREKRNAGNAVRSAMKSEQKIDARKGLVFPFNPQ KSBAAFPPTKPPSSCDTNAIAKQALKKPKIKGQAPKPAQGG TQQRKLITDPPVRRSRKSAELQSEERIKIDELISGKEEGM KIDLDGKRGVIATQPKSRGDFVVEYHGLDIEITDAKKEALY AQDPSTGCYMYFYQLSKTYCVDATRETNRLRLINHSKQCNQ TKLMDTGVEHLILIASDIAAGEELLYDYDGRSKASIEAHFNL KH
6210	3761	387	ITGHSKEMVLEDSGSADFRHFVNLSPFTITVLLLSACFVT SSIAGDIELRLVDGNSKCSGRVSVKQVGEHWGTVCNNGWSNENAV VINCGLQCPATAKAGNASSASGSRVWHDVSCNGESALND CHDQWGGHNSCHTQDQGVGTCSGSENLZELRLTSGNNSGRIE IKPGRWGTGCDNFTIDHASVTCRLKCSASVFSGNSPFGS SGPIWFDDLCNMGESALWNCCHQGGWGHNCDAEAGVICSXG ADLSRLRLVDGVTCSGRLEVRFGQEWGTTCDGWDSDYAAVACK QLGQCTAVTATIGRVNASKGPGHILWDSVSCQGHFPAVWCKKHIE WGHYCHNHEDAGVTCDSGSLDELRLRGGGSCAGTVEVEICRL LGKVCDRGWLKRDVYCRQLGCGSALSTSYVYSKIQATNTWL

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5211	3761	387	<p>FLSSCNGNETSLWDCKNWGGGLTCDHYEAKITCSAUREPRILV GGDIPCSGRVEVHGDTWGSICDSDFSLEASVLCRETCQGTVV SILGAHFGGNGQIWAEEFQCEGHESHLSLCPVAPRPEGTCSH SRDVGVCSSRYTEIRLVNGKTPCBGRVELKTLGAWGSLCNSHWD IEDAHVLCQQLKCGVALSTPGGARFGKGGQGIWRHMFHCTGTGTEQ HMGDCPVTLGASLCPSSQVSVVICSGNQSCITLSSCNSSSLGPT RPTIPESAVACITSSQGLRLVWGGRCAGRELIYHSGSWGTICD DSMDLSDAHVVCRLQCGCEALINATGSAHFGEOTPIWLDKCKN GKESRIWQCHSHGWGQCNCRHKEDAGVICSEFMSRLTLTASRE ACAGRLVTFYNGAWGTVGKSSMSETTVGVVVCRLQCADKGINP ASLDKAMSIPMWVNVQCPKGPDTLQCPSSPWEKRLASPSSET WITCDNKIRLQEGPTSCSGRVEIWHGSGWTVCDSDMLDDAQV VQOQLGCGPALKAPEAEFGQGTGPIWLVNCKCKGNESSLWDPC ARRNWHSECGHKEDAAVNCITDISVQKTPQKATGRSSRQSSFIA VGLGVLLAIFVAFVFLTKKRRQRQLAVSRGENLVHQIQYR EMNSCLNADDLMLNSGGHSEPH</p> <p>IFGMSKLEVLLEDSGSADFRHFPVNLSPFTITWLLSACFVT SLSGTDKELRLVDGENKCSGRVEVVGQSEWGTVCNNGWSMEAV SYICNLGCGPTAIKAGWMASSAGSRLWMDIWHCRGTESSALWD CKHDGWHKSNCTQDAGVSGJNLEVRITJSGNCSGRIE IKFGQKRWGTCDMPHNDHSAVICRCLSCGSSVSGSSHFEG SGPIWFDLLCNHESALWCKHGWGKHKNDHAEADAGVICSGK ADLSRLVDTGTECSGRLEVRFGQENGICDDGWSYDAAVACK QLGCPITAVTAIGRVNASKGFHILWDSVSCQGHFAVWQCGHIE WGKHYCNHEDAGVTCSDGSLLERLRGGGSRCACTVEBIDRL LGKVCDRGWLKEADVCRQLGCGSALITISQVYSKIQTANTWL FLSSCNGNETSLWDCKNWGGGLTCDHYEAKITCSAUREPRILV GGDIPCSGRVEVHGDTWGSICDSDFSLEASVLCRETCQGTVV SILGAHFGGNGQIWAEEFQCEGHESHLSLCPVAPRPEGTCSH SRDVGVCSSRYTEIRLVNGKTPCBGRVELKTLGAWGSLCNSHWD IEDAHVLCQQLKCGVALSTPGGARFGKGGQGIWRHMFHCTGTGTEQ HMGDCPVTLGASLCPSSQVSVVICSGNQSCITLSSCNSSSLGPT RPTIPESAVACITSSQGLRLVWGGRCAGRELIYHSGSWGTICD DSMDLSDAHVVCRLQCGCEALINATGSAHFGEOTPIWLDKCKN GKESRIWQCHSHGWGQCNCRHKEDAGVICSEFMSRLTLTASRE ACAGRLVTFYNGAWGTVGKSSMSETTVGVVVCRLQCADKGINP ASLDKAMSIPMWVNVQCPKGPDTLQCPSSPWEKRLASPSSET WITCDNKIRLQEGPTSCSGRVEIWHGSGWTVCDSDMLDDAQV VQOQLGCGPALKAPEAEFGQGTGPIWLVNCKCKGNESSLWDPC ARRNWHSECGHKEDAAVNCITDISVQKTPQKATGRSSRQSSFIA VGLGVLLAIFVAFVFLTKKRRQRQLAVSRGENLVHQIQYR EMNSCLNADDLMLNSGGHSEPH</p>
6212	1	1134	<p>LKWLRLPGGAVWGTGRGAGTGAPRSCCCQTNFGPPSSLRAPRR RELFPFACHEIGLGAAGSGOPPAFAAREERSRAMEEASSPGL GCSFPLEKLTGLITRILESSPGVTETVTIIEKPPAERHMISSWE QNNCVMPEDEVKNFYLMINGFHTWSVKLDEHIIPLGSMAINS SKLTQLTQSSMYSLNAPTLADIEDDTHASDDQPEKPHFDSRS VIFELDSGNSGKCVLYKSGPALAEDTEWLEWFLDALWHTLT DIFTAYKLLITHLGLPQOQYAPTSGISPAQQRVSMYKPTTY NTNLLTETDSFVNKLDESKVFKSTNKIIVIPKKKGFPQAPGGQK GPGSPGSPSTSTSTSSSGSGNDPTK</p>
6213	1	1134	<p>LKWLRLPGGAVWGTGRGAGTGAPRSCCCQTNFGPPSSLRAPRR RELFPFACHEIGLGAAGSGOPPAFAAREERSRAMEEASSPGL GCSFPLEKLTGLITRILESSPGVTETVTIIEKPPAERHMISSWE QNNCVMPEDEVKNFYLMINGFHTWSVKLDEHIIPLGSMAINS SKLTQLTQSSMYSLNAPTLADIEDDTHASDDQPEKPHFDSRS</p>

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			<p>VIPELDSCNGSGKVCVLVYKSGKPALAEDTEINFP-DRALYNHFLT DTPTAYYRLLITHLGLPQWQVAPTSYGISPOAKQKRVSMYKPIY NTNLLTEETDSPVNKLDPSKVFKNKKI VIPKKKGPVQAGGCK OPSGPSGPTSSSTKSSSGSNNPTRK</p>
5214	2	460	<p>HELAPSAIRKAAALGSGPAAKQSAARAFYFVROPRTGMSPVW VLGTSAKRTELPFPLSKMAASSRAQVLALYRAMLRRESKRFSAYN YRTYAVRRIBDAFRENKIVKDPVEIQTILVNKAKRDLGVRIRQVH IGQLVSTDKLIIENRMPRT</p>
5215	2	1849	<p>FVAGPREGSGSARETWPEIRVIFLGAQGVGRSCILVSIAGENV MLDCGMHNGPNDUKRFPDPSYITQGRILDTLCVITSRPHIDE CGALPVPSEMVQDGPITYMTPQAICTPLLEDYKTAIDYKKEE ANFFTSQMIKDKMKVAVNHLCTVQVDELEIKAYVAGHVLGA AMFQIKVGSSEVVYTDYNNTPERHLGAWIDKCRPNLLITEST YATTIRDSKRCHREDPLKVIETVERGGKVLIPVAFALGRAQELC ILLETFWERNMLKVPYIFSTGLTEKANHYYKLFIPWNTQKRKT FVQRNMPEFCHIKAFDRAFDANPGPMVVFATPGLMHAGOSQLIF RQWAGNEKNMVMIPGYCVQGTGVGHKILSGQRKLEMEGRQVLEVK MCQVEYMSPSAHADAKGINQLVGQAPESVLIVHGEAKKMEFLQ KIEQLRVCNVPANGETVTLPTSPSPVGTSLGLLKRMAQGL LFAAKPRLLRGLTLMKDSNFRIVSSBQALKEGLAEHQLRPTC RVHLHDKREQETALRVISHKSVLEDEQVGLPQGVSTVSEVL LQANAPSEBPGTKVLLVSWTQGBLGSPTSLKLLKQAPS QTTPEPENSALGRSRSKMAVGVSSVALLGRSKFLGRFWS GAHGEBSGARMKTLTFVFPALGVAVSMNVLYLKHSHGEHFER FIAYPHLEIRTKFPFPGDGNHTLFNNPHNPLPTGYXDK</p>
5217	9	1178	<p>TRVRRSGSLKMEVPPPGRPQPSGRRRRRREGEEDGPKPEQ LRKLIGGLSFEITDSDREHFKEKWTLDUCVMRDPTKRSRG FGFVTSVCEVDAACARPHKVDGRVVEPKRAVSRSDSKPGA HLTVKKIPVGGIKEDTSEYNLEDYPEKYGKIETIRVMEDRQSGK KRGFAPVTFDDHDTVDKIVVQKYHTINGHNECVKALSKOEMS AGSQRRGSGSGNFMGRGGNFGGGGNGFGRGNGFGRGGYGGGG GSGRSGYGGGGGNGFGGGLGGYGGGPGYSSRGYGGGGPGYG NGGSGYGGGGGNGINSDGNFGGGNGGGGNYNDPGHYSGGGGS NYGPKMGSGFGRSGSGSPGGGTYGGGGGGYSGRFP</p>
5218	1305	906	<p>CSERKGFTHADLKRFLYKFLSVSGIHLATVDEDIDGVIVKVA NDNAPEHALRPGPLSTPALATDQSKLGLSLNKSII CYNTTYGV VQFNRLPLVVSFIASSANTOLIVSLEKLELAPFELRQVVEVS</p>
5219	2	890	<p>AGPGRGAGGTRCAGAAEMASNGGDECSAPADRKLTPRPPT IGVSGGTASGKSTVCEKIMELLQNEVEGRQKVVULSGDRFVK VLTAQKAKALKGQYNFDHPDPAFNDLMHRTLKNIVEGKITEVP TYDFVTHSRLEPTTVVYADVLFEGILVVFSGEIRDMFHLRFP VDTSDVRLSRKVLDRVRRGRDLBQILTYQTYTFPKPAFEELPCLP TKKYADVIPRGVDMVMAINLIQHIQDILNGDCKWHRGSGNG RSYKRTFSEPGDHGMLTSGKRHLSESSRPH</p>
5220	227	764	<p>EQNISLEMSCTIKALADAKALVERLARDHDAESLEQTTALN KRVEAMQYQKRIQELHRVARHKEPSTLVMGIIQENRQIRELQO ENKBLRTSLEHQSALELIMSKRECMFLLMASHKDDPGIIMK LQSHSKIDMVRHNSKSGFFLDASHRLLEAPHLGERHLERLAE NVH</p>
5221	98	916	<p>RWINDLNPVSDGLEPRKYNGILHCLTATWKLQDGLRGLQGVFP NIMGAGLSWGLYVFTVNAIKSYKTEGRARERLAKTYLVAASAG AMTLCITNPLVNTKTRIMLQYDAVNSPHRQYKGMFDTLVKIYK YSGVRGLYKGFVGLFGTSHGALQPMAYELLKIKYNQHINRLPE AQLSTVEYISVAALS KIFAVAATPYQVVRARLQDQHMFPYSGVI DVITTKWRKEGVGGFKGIAPNLRLVTPACCTTFVYENSHFL LDLREKRK</p>

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6222	2	2116	MARRERALLWGRRLRPLLEAPALAAVGGGKILCPRRATTAQLE PRRNPAWSLQAGRLFTQTAEDKEEPLHSIIISTESVQGSSTSKH EPQAEETKKLLDIVARSLYSEKEVFIRELISNASDALEKLEHLV SDGQALPEMETHLQTNARKGTITITQDTIGMTQELVSNLGTIA RSGSKAFDLALQNAQZASSKIIQQPGVGFSAFMVADRREVYSR SAAPGSLGYQLSDGSGVFEIAZASGVRGTGKIIILHLSCKCE SSEARVDRVVTKYGNFVSPFLYANGRRNMTLQAINMMDPKDVRE WQHEFPRYVQAQMDKPRITLHYKTDAPLNIRSIFYVPMKPSM FOVRELASSVALYSKVLQTKATDILPWNLRFTGVGDSDEL PLNLSRELLQESALRKLGRVLQOKRILKFIIDQSKSDASKYAK PFDYGLFMRBGTIVTATEQEVKEDIKLLVYESSALPSCQULTS EYASRMRAGTNRNIYLCAPRHLASHISPYEAMKKKDTVEVLCF EQFDLTLHLHREFDKKKLSIVETDIVVDHYKEEFEDASPAE CLSEKETEELNWMNRNLGSRVTNKKVLELDTHPAMVTVEMG AARHFLMRQQLAKTQEERAAQLQPTLEINFRHALIKKLNQLRAS EPGLAQLLDVQTYENAMIAAGLVDDPRVYGRINELVXALERRH
6223	3	715	DAMARTMAGVDFQDESEVKSFLNENVECVNCHYERKDPFGCY RLVDYLEGIRKINFDEAAKLVKFCENQSHDS CYKLGAIVYVIGK GGTLQDLKAAARCLMAACEPKKSIACHBVGLLADGQVNEED QGPDLGRARYDTTACDGYTSSCFNLASFLQQAAPGPKMDL ACKYSMAQCDLGHVACANASMYTLGSDGVKYEAKAEVLKGRRA QVQVKEQCKQVQVITPG
6224	1	133	LETTISPAWGPILLTLAHCTSGWAGSVLTQPPSPSGARITPHEK
6225	3259	938	LLSCHRLAICLPPFSVERKTVWSPQAGRAQALFAGBTVVDFT CKENRLLSPAQRALYAEVTLNYSHLVSLQLHSEKELIRLEQ GEVPWGEFRRPPGPGCAGIYAEHVLRLPKNLGLAHQRCQQLQFSD QSFGSDTAEQGEKSKTKMPPSSPFLRIADVSRRRNSVVEIES SQGRENPTSIDKVLKGIENSRWGAFFCAERGGDFSRKMMVILH KKAHSRQKLFTRCEICQGFEDSALLLHCNTHTGKSYVCSVCG RGFLSKANLLRHQRTHSGEKPFLCKVCGRGYTSKSYLTVHERTH TGKFPYEQEGRNRNDKSYNKHKAHSGEKFVCKECGRGYT NKSFFVYHRTSGEKPFCQEGCGRGSNKSGLITHQRTTHSGEK PPACRCQKQSPSVGSLLRHQRTHSGEKPFLCKDCERSFSQKST LVYKQRTSGEKPFCVCEKQCFQTKSTLVHQTTHSEKPPVC KDCGRGPTQKSTFTLRQTHSGEKPFCVCEKQCFQTKSTLVHQT LRAHLGEKRPFCRDCGRGFTLKNLITHQRTTHSGEKPFCVCEK KSFSLKANLLRHQTHSGEKPFCVCEKQCFQTKSTLVHQT SGEKPTICSEKQGFITKSNLVKHLAHSQKQPFVCKECGRGPN WKGNLTHQRTTHSGEKPFCVCEKQCFQTKSTLVHQT KPFVQCEKRGYTSKSDLTVHERITHGSRPYEQCECGRKFSNKS YYSKHLKHLEKRRKPTGSGVGRASS
6226	29	266	TKVSELGGSQRLFFPLPLMRRLCRGGLGPRVSPWAGPRVVDGS IIRGGQSGLRVSTGLSWLLSLPWRQAIRAGRSYA
6227	2581	890	MSASSLLBQRPGQCNKQNGSVHQHGDNDDDPEPLYSQAPAE NNAYTAMSDSYLPSYSPISGFSYSLGSAWSTGGDTAMPYLTLS TQGLNGREHFLPDMPGQPGALGSTPFLQGHFPPFSGIDPS AWNMSQSGSTQSSQSYSKYAYAGSGLGEMIDGGAFAREKL NKAPGWNITDQMAALLKSGTYSVASNVPVQVGSVAGSGEITSH VASNSLPAPAIAPPKASADIASKPAKQPKLKTWNGIAGSEL PPFPIKGNMDIGTDNKGSPVAKAPSOALVQNIQPTQSGSPQV QOANNSPPVAQASVGQQTQPLPPPPQPAQLSVQQAQAPTRHW APRNRGSGFGEHGVGNGVQSGQAGSGSTPSEHPVLEKLRSLN NYNPKDFDNLKGRVFIKSYSEDTHRSIKYINWCTEHGKN RLDAATRSMMNGKPVVLLFVNSGHPGVARMSA/VDNTCAG VMSQDKNKGPRVDRNIPVKGVPNSQLRHLRLNENKPKPTNSD TQEVFLEKAKQVLKIISAYKHTTSTPDDPSHYEKQ

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6228	47	1978	GRRCRRGAVNELAQEARELGCWAVEENGVPVAVARAPESTLRLRL CLGQAGIDINAYILQHVQSRTVKIRGNLLWYGHQDSPOVRRKL ELSAVTRI-RAETQELDQSLMERSDTEAQDTAMEQARQHTQDT ORRALLLRAQAGAMRRQCHTIRDPMQORLQQLRLQDMERKAKV DVTFGSLTSALGSEPVVLVDVRIACTLRAQFLQNLLLPQAKRG SLPTTDDHPTTSIQWILSSVYTLTNHPPGHVLAALHHLAER EABIRSLCSGDGLDGTTSISRPCAEDQSDCLTSFWHLIQEON RTVGVLVSQRSTLLKERQVLTQRLOQVREVERAVLGSSQVLT ILGLRCCCLNTRLKALHDSQSELDQAQHRQLMLRELQACQORI LHNRLQVEETQQRVRLIKGNSASKTRLCRSPGVLVALVQRVYV PTFEAVAPQSRRELLRCLEEEVRHLPHILLGLLRLHRRPGELKPLP TVLPSIHQLHPASPGSSPIALSHGLGPPGKASELLLPAAASL RQDLLLLQDQSLNWCWDLHMHKTSLLPGLPTQELLQIQASQEQK QENLQALKRLEKLKQALERTPELPGIIVGWNQPGQALASE ELCOGLSPQWRLRWVQAQGLQKLS
6229	1571	560	GPSLIGTRGTPNPAETLOIFFLLIGRLETCRRAVDDQLPFEFG NAATSLTANPDATTVNIEDPGETPHQPGSPRSGSREEDDELLG NDDSDKTELLAQCKSSPFWTFEYQITFFVDVTVQDIRKGSLL LPIPGMVEVRLIKRSPDLPQFPFICMTLVFAIAISGHLSNPLFI HLGKTYHYVPEPKVSLAATLVATVAVLAIAWFLMWRNRSK VNNIVSYSPLEIVCVVGYSLPTVTPALVILIPKHAVERLWIMV ALGISGSLAMTVPNAVRENNRVALATVITVILLEMILSVGCL AYFFDAPBMDHLPTTTATPNQIVAAKSS
6230	1723	600	SKMSGRSGKJKMSKLSERASQAVTIPVGRLMRYLKKGTFKYRIS VGAPVYMAVIEYLAELIELAGNAARDNKIARAPRILLAVA NDEBLNQLKGVTIASGGVLPRIHPELLAKRGTGKSETILSP PPEKRGKATSGKGGKSKAKPRTSKSKPKDSTKEGINSST SEDPGDPFTIISSSKSLVGLQKLSLTQSDISHIGSKRVEGIVHP TTARIDLKEDIGALEKAGGKFLFETVKELRKSQGLEVAERAAV SQSSGLAAKFVICHIPQWGSXKCEQELETIQICLSAABDKKL KSAVAPFPFSGGNCFPKQTAQVTLKATSAHFDDSSASSLKVVY FLLPDSSEIGITVQMAKLDK
6231	149	870	LTFSSSWLSLRVLPVSPGILLPANGQLQSLQSSLYSEEC LQVATLTYLGMILLSSMPLPELLERLCKQCTTILGMCQVYAP SVGNFPASKYTLIPTSLILGLCAPIVSAQCTYLTITGNTAKK ACKRGKMNVPYQIPFIPQSGGVNMLSSLVFGQTPSQBTL PEEQLTSCGASDCIMATTITNSTQRPQSQVYVITLLGIYTSQGLV AVLMIAAFLQPIRDVQRESE
6232	3679	1476	VAGTITMAGFWGTAPLVAAGRRGRPPQDLNLSAALRTLKHVL YYSRQCLMVSRNLSVGVDPNEKTFPKILVANRGEIACRVIRC KMGIKTVAIHSDVDASSHVQMADEAVCVGPAPTSKSLYNMDA IMRAIKKTRAQAVHPGYGLSENKEFARCLAAEDVVFIQPTDHA IQMGKDIESKLLAKKAEVNTIFQDGVVKAERAVLAREIGY PVMIKASAGGGKGMRIAWDDEBTDRDGRFLSSQEAASSFGDDRIL LLEKFLDMPHRIETIQVLGDGHNAIWLNNRCSIQRRNQKVVEE APSTFLDARTTHAMSGQVALARAVIYSSAGTVFLLVDSKKNFY FLEKNTLRQHEPFTICLGLDINQEMIRAKVYPLRHQGDADR INGWAVECRVAYDPYKGFGLSRLSQICRHLPRVYVDSG IQPGSDISIVYDPMISKLITYGSDRTBALCRWADALNIVIGV TNNIALREVIINSRFVKGDIKFLSDVDPQDQKHPETKSEK NQLALAIASSLFVAFQLRAHQFQENSRMPVTPDIANNELSVKLIH DKVHTVVASNNGSVFSEVVDGSKIVNTSTANLSPILLSVSDVGT QRTVQCLSRFAGGNMISIQGLTVYKVNILTRLAELNEMLEKV TETDTSVLSRSPMKVTVVAVSVKPGDAVAGQECVIRAMKQMS MTAGKTGTVKSVCQAGDFTVGEGLLVELE
6233	1	2654	HSTRENLMAGNFNPPSEGLVKSITPGGGSYAKHIMVACVSKFGP

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			LACSKTYFFGATHVPTLGGDSKLEKKTEQIRLLSQTYAAVIEAV LGIACYAKTSSLTAKAEVAEQLTGLDSEFELIPFKAAARSKM TFHHAVNNOGRIVPLDSEDSLSFVKTACHAVYDIPDLGSGNG LGSVVFSESLFQIILVKEKDOTVTTECSSVLLAAVPRFCSSWL VEDNEVKLSKETHQAVRGDESFGTYLTGGEGAVLYSSNLQSWP EGNVHFFSSGLLFSHCRGSIISKDMNNSISFVDDSTETVA ALLDFFSSSLPHLPVPHFGSSNFIMIALFFKSKITQAFYSEVF SLWKQDQSGSLSEVTEQEDLAVSQRLHSSAKQLSALSGPAG EKSSLLKLSAKLPEDNFWLQFAISGSIQSGPVKTHLPULLQ AEINTHRIESDKVTSISVTGLPGCHASELCAFLNLTIKKCGRN MYRQINDSSSECFHAHFQYILSSALEAQNRSAQSAVIRKKT RLVLVVGQYTDVVDVQALQTHPDNSNVKASFTTIGAITACVPMNS CYMEHRLFPPKCLDQCSQGLVSNVPTSTHTTEQRHPLVLQGLSL IRAAHPAAAFILAENGIVTRNIDIELILSENSTSPFMLERSYL MYPGWYEGKLNAGSVYPLMVQICVWFGRLPXTKRFVAKCKAIQS SIKSPFSNGNIYHILGKVKFSDSERTMEVCYNTLANSLSIMPVL EGPTPPDDSKSVSQSSQQQECYLVIQCSLKEDSIKDWLRQSA GKQJRKALKTRGMLTQBSIRSIKVRHLEP7PAGYFYNGIQFV NPFSDKTDFFPLMDQPMNDYVEEANEIRKYNQLEQQSYHDLF ELKE
6234	1731	404	PRVREDMDHKSPOKGSLLVAGTISKSVKSLGNVTSRRNNSGL DKQSDIQNLNEERIILALQLOQNIKKGTQVWGPFLNLSLVQEGEN ERAAVALFNLDIRRAIQILNKGASSEKGDMLNVAAMALSGYT DEKNSLWREMCSTLRQLANNPYLCVMFAFLTSETGYSYDGLYEN KVAVRDVFACFACKLSDTQLNRYIEKLTENMKRAGNLEGILLTG LTKDQVDLMESYVDRTGDUVTASYCMLQGSPLDVLKDERVQYWI ENYRNLLDAMRFWFKRAEFDIHRSLKLDPSKPLAQVFSVSNFCG KSISSYSCAVPHQGRGFSQYGVSGPTSKVTSKCPGCRKPLPRC ALCLINMGTFVSSCPGGTSDEKVDLSKDKKLAQPNWFTWCHN CHGGHAGHMLSWFRDHACFPVASCCKCHQLDITGNLVPVETV QP
6235	1	571	EKRDRHLPSPWPAALKVFGGQGVGTITPELAAGTATATRNPPPO DYESDDDSYEVLDLTYARPHQHNVRPHSSGPMVEKYSVATQ IVMGVGTGWCAGELPQKVGKLAATAVGGGFLQLQIASHSQYVQI DWERVEKDVIKAKRQIKKRNZAAPRINNLSEATEFIKQNI VI SSGPGVGGFLILGLAS
6236	1	703	WDQNKGAAGSGGILFSLPSAIFSGAGPTQSRPTMNNMREHLP NLKFAAKELSRSAKCKDKEKAEKAKIKKALQKGNKEVARIHAE NAIRKQKQNAVFLRMSARFVAVARQVATVWGKVTSMAGVVK SMDATLKTWNLEKISALMDKFEHQFETLDVQTQMEDTMSSTTT LTPPQNVDMLLQEMADEAGLDLNMELPQSQGTSGVTSVASABQ DELSQKRLARLDQV
6237	312	720	PFHAREBSIAGGVVDVNTALQHVLTALHDGLANGIREAAGA LDKQQAHLCLVANSCEPMYVEVLSALCEHQNLILKVDNDKKL GHWGLCKIDRGGFKRVVGGCSVVFVKGYSKCAKDVIBSEYFK CHK
6238	2	4666	EEVPTQESVKNEINVIKFNPRIVPVADMKNDAPALVITTTQCEI CYKGNLNSNTWDAIKDLQVRACPFLPVKRGKKITVLPQCDLE YQTTQKGTDPQVILMSVKSILTKVSPVILNIMTITISALYITKE TIPEETASSTAHLEKKDKTKLKNWFLRESNETEKIAPTLELVP KGEMIKWNIDSIFIVLEAGIGHRTVPMLLAKSRFSQSGENNSSL INILHQLLELVITYNNMFGWNEPLLEPLEIDQTEOPRFNWLGIK MKKAKMAIVESDPRERNYKVPYKTVISPHSKDQLNITLSKCG LVMLNNLVKAFTEAATGSSADFPVKDLAPPFILNSLGLTISVSPS DSFSVLNIPMAKSYVLKNGESLMSDIYRTKDNHFNAMTSSLSK LFFILLTPVNHSTADKIPLTRVGRRLTYVHRHESGVERSTVCGI

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			<p>DTVEGSKKVTIRSPVQIKNNHFSVLVSVEGDTLLGTASPENEFN IPIGSYRSFIFLKPEDENYQNCBIDFEEIKNDGALLKKKCRS KNFSKESFLINIVPEKUNLISLSVYSEGDWDLPIYMLNPPILL RNLLPYKIAVYIEIGISNVFTLS EHSASQICTAQLGKARLHLKL LDYLNHDWKSSEYHI KPNQDDISFVSPCTVTEKETDLDIAVHMT YNTQTVVAFSPSPYMWVKDGRMLQYKADGHRKHPPNYKKPVL FSQPNHFFNNKQVLMTDSELSNQFSIDTVSGHGAVCKCKGLK MDYQGVVTIDLSSEFNITRIVTFTFPMKMKSKYHISVABSGND KWLSDLEOCIPFPESTASSKLLIQVRSDDPKRIYFNKQREK ILLRLDNLGQIAFVNLASHTVTTFLEHGDGATFLLDHRKT NELVQVQNSLSEHSDSLPQGVAVYTKADPUGSRLLHWKCRKS HGEVTKDDNMMPIDLGKTIYLVSPFEGIQRIILPTEDEPRVK VTYESKAEALBAQELAVALLQVGVISLVNNYTKQVAVYIGTSSD VVMETPKKKARWQKMSVKHTEKLEREPKYTESSPSDEKVIQL DTNVFVRLTPTGHNKMLLQPHVALIRNNYLPALKVYNTSAHOS SFRIQIYRIQIQNHGAVFPFVYFVKPFSVIMDSAPKPFPTD VSIVMRSAGHSOISRKYKFLQJLQENMDRLDLGFTYALCDLMT ASVTENTEVELPHKDIEAFKEEYKTASLVDSQVSLVEYFHI SP IKHLLSVLSLSSGRBAKDSKQNGGLIPVSHNLNLLKSGATLTD VDQVVFKLAFELNMQHTTISDLQSEVIRHYSQKAIKQMYVLIL GLDVLQHPGLIRFSEBVEAFKFEYQGAIQGPSEFVEGMAAG LKALVGGAVGGLQAGASKEITGMAAKYVAANTDLYOCKEREM NMQPAGPREGITRGKGLVSGFVSGITGTIVTKPIKGAGQGGAW FFXQVGKGLVGAVARPTGGIDIMASSTPQGIKATATESSEVSLR PFRFMEDEGVIRPYRLRDGTGKQMLKIQFYREKIMTHSSSSDD DDDDDDDDSDLNH</p>
6239	2108	634	<p>KPGNAGKSSGSKRFLLLGLLAVATVHLVICPYTKVEESFNLOA THDLLYHMQDLQYDHLFPFGVVERTFLGQVUVIAVSPSPVYVL SLENSKFYSOLIVRCVLGLGVIFGLMTLQKEVRRHFGAMVATM FCNVTAMQFHLMFYCTRTLPNVIALPVVLLALAAWLRHEWARFI WLSAFATIVFVRLCLFLGLLLALLGNKRVSVVRALRHAVPAG ILCLGLTVAVDSYFWRQLTWPEKVLNNTYVLAHSSWGGTSPFL WTFYSLRPLGLCSLLFTPLGLVDRTHAPTVLALGFMALISLL PKELRFTIYAFPMALITFAKQCSYLLNNYKSWLYKASLLVI GHVVMVAAYSATALYVSHNPPGVAMQRLHQLVFPQTDLVLIH DVAAAGTGVSRFLQVNSAMRYDKREDVQGTGMLAYTHILKEAA PGLLALYRTHRVLASVVGTTGVSNLNTQLPFPNVHLQTLVLL ERLPRFS</p>
6240	2202	1176	<p>HERGDSLKEPTSYAESRHDPSYKSEPSLEPSFRSPPTFKSFTF DPLSSGRSSSLKSAQGTGFRGLQGLISESTTTSYSLANQ TKNGSLSYDSLTLTSDSPDFPESVQAGPEPDPIPGTSPPLSARL AQQKEABERHRLVPTGPTTHREPSFVRVYDNLRHIVASLQKEKRL LRQSPPLPGREBEPGLDSDGQSTPGSGHAPRTSSSSDDSKRSP LGRITLGRPAVPRFGKPDGLRGKGVGSPPEGPTAPYLGKMSYS SQNAQPGVSETEVAVQLPLTPKDEVLQKTTYSENGQPSXLSGS ASRPGQPLSSPTGQVKKYSGVGGTIVLSV</p>
6241	3	1341	<p>NRAREKESLSLQREKILARVYSIRRETBALVQARLTDKLCIT RVRRITPHILRFPEKGQVAVKERIIPVYLRRLQIKDETIQAQVR EILALIGVPEPKRGIRILSIDXGGTRGVVALQVLRKLVELTO KPVHQLDFYICGVSTGAILAFMLGLFMHLPDECEERYKLGSQV FSQNVIVGTVMGWSHAFYDSQTVENILKDRMGSAIMETARNP TCPEVAAVSTVNRGKITKAFVFRNYGHFFGINSYHGLGCOGYM NQATPASSAAPGYFAYVALGNDLHQDGGCLLNPNPSALAMHECK LMPDVPLECIYSLGTGRYSDVRNTVYTSLSKTKLSNVINSATD TEEVHIMLDGLLPDPTYFRFNPVNCENIPLDESNNKLDQLQLE GLKYIRNERQKMKKVAKILSQERTFLQKNDWIKKTDMEGSLP</p>

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6242	198	1310	PFPSK QHPLFGAETWSGAAVCTAKRPFGRSLAAPPRAAPRAVEMGE SSEDIDOMFSTLIGEMDLTQSLGVDTLPPDPNPPRAEFNYSV GPKDLNESLNALEDQDLDAIMADIVADTSEARQRTIQAKESLQ NQHHASLQASIFSGAASLGYGTNVAMTISQYSEDLPPPPADP VLDLPLPPPPPEPLSQEEREAQAKADIKLAKLEKLEAKVKKLV VGVHMDNSTKSLMVDERQIARDVLDNLFEKTHCDNCVNDCLYE IYFELQIERFFEDHENVYVLSDWTRDTERKILFLEKEEKYAVF KTFQNTLDNRGKASEKENTHNNNAKNKSLLEVRLLQSGRKE KDVCSPKPSASENNGKI
6243	1509	614	RSASFFSGCWRSDSTCCCCPSTNKRSSASAPRANRPFSSAPAT TSRASSRRLACGPQIRAGAEATRTAMIRNSAARDTRRATCRSA AGTFSPITTMICLDVPTGCAAVEPTARLAPAMASTITTCGCCPA MGQAGAGFAGKGSSEAGGPGORAHHAHPSPLREPRVETGPPAE SPTFGSPIDSPESLWSGSAVGTQESPLLDVDFLLPFRTRAVDPLR RVFFPFYQHLTFPSIQPPFPCHAFHPRDPAGTKRQLLIVPLK GFPILAPILSLTFLSRMSCYPPPSRSLAGWHLS
6244	2119	1745	FEHAYASQGTFLGNNESECKLJKQKTNLSNWSNPQSELSK PTNPLFEANNLWVSPVAPQSLPLNBIQFLPNRNSSKYDEAYE EMVNIIEYNKEQAKVNIILRQLAELETEDGMOESP TSLERAKTSFPQELTSLFSDHDLNNDCKRKYITNTIVTSLTI ICISLAWIISKASTYQNRLEISPRHMLPSVVVPLVLSNGL KCKSLDHSGLGGLVVGPIITLITANYSFTSLLLPFIASSKLTKN KGEVKRKLDSYKKEGGQRNNVQVPCNAGVPTLALLYMEENGSP EIPVDFSKQYSASNMCLSLAALACSAGDTKASEVGPVLSKSP RLITTTWEKVPVGTNKGTVVUGLVSSLLQGTGVGIAYFLQILFV NDLIDISAPQWPIIAPGGLAGLGLSIVDSVLGATMOYTGLEDSTG MVNPSFTNKARHIAKGPLIDNNAVNLPFSVLIALLLPTAANGWF PRG
6245	81	1148	SLMFWILMDDSLMQISLQLLCVYITANFNGCSSLWSSCGGHV QATHRGAVNSIMLCILKASQMLENTTVQMVFMILSNLALS HDCKGVIGKSNFLQNFSLALFPGKGNKHLNSNITLMLKLLNLS SGEDGQMLIRLGDCLDILTMSKYHKSSEPLPLLIFFNVCFPS FANKPKILANEKIVTLAACLESENQNAQRIGAAALNALTNYQ KAKTALSSPSVKRRVDEARYLAKKTPNSENPLAYIYKCLEN LVQLNLS
6246	1177	359	NSRVGFWPHTSAGSLRPMARKQNNNSKGLVLPLTDDTSAGCP PGPRALLKCDHLRSGVPGGRERKQWSCSLVASLAGAGSPSL YGYNLISVYNAPTYPIKAFYNESWERRHGRIPDPTLTLSVSTV SIFAIIGGLVGTILVKMGKVLGRKHTLLANNQPAISALLNACS LQAGAFEMLIVGRFIMGIDGVALSVLPYLSISPEKIRGSLG QVTAIPICIGVPTGQLGLPELLOKSESTWPLPVIVVPAVQVL LSLPLPLDPSRYLLKRNHNAVAKAQFTFLGKAIUSQBEVEVL AESRVORSIRLVSLILRAPYVRMQUVTIVTVMACYQICOLNA IMFTNSIPGRAGIPPAKIPVTITLSTGGETLAAVFSGLVIEHL GRPLLLIGGRGLANGIPFOTLTITLQDIAPWVPLSIVGLLAI IASKCSGPGSTITLTKRFGQSGSDAFILACTVWMLSNVAVG LLPPIQKSLDIYCPVFAETICTGAILYLYVPLPETKQRTYAEI SQAFSKRNKAYPPEEKIDSAVTGDGKNGP
6248	56	1773	VPPPRMAAVPPGLEPNEVETPKNGNEASVTVQNGAALDLCI AAVIEKCHLVILSLKSQTLDAETVLCVLYSNHNMGRHKPHL ALKQVBEQCKRLKNNMLEGSTQDIFELFSSNENQPLTTKVCVVP SQPVVELVLMKVLGACKLLRLDLCCCKTFLITVKHIGLQETII LNLVMVGLVSRILNVLYKGLVRLILLLIYEPFLGLIQVARSQDHP YFKDPTFSDITEFLGQDYPBAPFKKMPAPAKNGINKLNLKLF LINEQSPRASRETLIGISKKAKQKINQNVLDLQGVQENRVF

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6249	55	1773	KESSSEFDVRAFCNLQKHATQETSDFKCSQSRLKTKYSSQK VIGTPHAKSFVQRFREASPTQLSEIOMAVVWCRSKKLAQAQAI FLGNKLLKSNRLKHLBAQQTSLPKKLECIKTSICNHLRSGSIK TSKHHLRQRQRSONKFLRRQRKPKQLQSTLLREIQCFSGQTRKS ATDTSARWRLSHCTVHRTDLYPMSKQLNSGVSMPIQTKKEMI HENLRGIEHNETDSWTVQINQNSSTGTIKETDDIDIFALMGV VFPENKAAVFPQLEPMKRVKTPKAGNSKAVVGVNGALLETICI AAVIKRECHVILSIKSOTLDAETDPLCAVLYSNWNRKSKPHL ALKQVQCILKRLKNNMLRGSIQDFELPFSNENQPLTKYCVVVP SQPVVEVLVMKVLGACKLLRLRLDOCKTFLTVKELGLQSFII LNLVNWGLVSRLLVLYKGLKRLILLYEPFLGLQEVARIQPMF YFKDFTFPDSITSLGQVYFEAFKKKPIAFAAGINKLKNLKF LINEQSPRASEETLLGISKKAKQKINQVNNVLDGQPVKNKRVF KRESSEFDVRAFCNLQKHATQETSDFKCSQSRLKTKYSSQK VIGTPHAKSFVQRFREASPTQLSEIOMAVVWCRSKKLAQAQAI FLGNKLLKSNRLKHLBAQQTSLPKKLECIKTSICNHLRSGSIK TSKHHLRQRQRSONKFLRRQRKPKQLQSTLLREIQCFSGQTRKS ATDTSARWRLSHCTVHRTDLYPMSKQLNSGVSMPIQTKKEMI HENLRGIEHNETDSWTVQINQNSSTGTIKETDDIDIFALMGV LDELINLALPQKOLEKTRIDDEGLGNLSSTELQLETVLTD LPDENALLPAGFRQKQKQTSKTPPEHREHLSSTELKALSKH REDYVPTGEGKKGIKPIQKQPVQVPTREKVLDPLEELALISA SDTELCDLAAILGMMNLINTKFCNIMSSNGVDQHFHSHVVKG EKILPVDEPPNPTNVEESLKRTKENDAHLEVMNLNIXIPIPI TLKDFAKALETNTHVKCFSLAATESNDPVATAFAEMLKVNKTLK SLNVEFNPTITGVGILALIDALRDNELAEKLDINQROQLGTAVE LENAKMLEENTNLIKFGVYFTQQQPRTAANAITKNDLVKRRR VEGDHQ
6251	62	972	TPGSGPMSAWAAASLSRAVACLLARGLRGVRAAPPRDPFSPTE PRGCGAAPGRTHPTAAVPAHNNKMSKVHRIKGQXDVRSRIIFS KLCLNLRVAVKEGGPNPEHNSIANILEVCRSKHMPKSTIETAL KHHSKDTYLLITEGRPGGSSLLIEALSNSHKKQADIRHLNK NCGVMVAARHSFKKQIVVREDREKAVNLERALMAIEAG ARDVKETDEDEERVFKICDASSELHQVRLKDLGLSVSCAL EPIPNKVLQAEVPLQEAAILQLALENHEDVHYVDNIE EEFTWIAVVGEMETAFKPGQVFPKKKLOTKRKKRYNNEE ETVPTTAGASPGPPRNKKNRLRQRPKNAYILKKSRIKPKQV PKKREWQNPESQRLSGAQDPPGPAVPVVEVVKFCRIDESR KLPHSKAKTRSLLEVAABEEETSIIKAARSELLAEPPGLEGE DOEDTAKICQADIVEAVDIASAKHFDNLRFQGPYRINYSRTG RHLPFGRRGRHVAAALDWVTKKIMCEINMVAERDIFLHSEALL AVAQNRWLHIYDNGQIELHCIRCRDVRTLEFLPHFLIATASE TGFLTYLDVSVGKIVMALNARGLDVMSCNPNVAVIHLGHSNG TVLSWS*AMKRLAKILCHRGGRVAVAVDSGTGMATSGLDHQL KIFDLRGTYOPLSTRITLPHGAGHIAFSQRIHIVAGMGDVVNIWA GKSKASPSLEQFLTHKLSGPHGLQCFPEVDLVGVTGGTIL SMLPVAGGEFNFGLSESPFHSRQKQEWKALKLEKVPALIC LDKRALAEVIVLSLECKKQIGLGLYDPAKAPFPKPKQKGR SSTASLVRKKEVMEDEHRDKVQSLQQKHKAIAKPYGARPS ALDFVFR
6252	27	1897	EEFTWIAVVGEMETAFKPGQVFPKKKLOTKRKKRYNNEE ETVPTTAGASPGPPRNKKNRLRQRPKNAYILKKSRIKPKQV PKKREWQNPESQRLSGAQDPPGPAVPVVEVVKFCRIDESR KLPHSKAKTRSLLEVAABEEETSIIKAARSELLAEPPGLEGE DOEDTAKICQADIVEAVDIASAKHFDNLRFQGPYRINYSRTG RHLPFGRRGRHVAAALDWVTKKIMCEINMVAERDIFLHSEALL AVAQNRWLHIYDNGQIELHCIRCRDVRTLEFLPHFLIATASE TGFLTYLDVSVGKIVMALNARGLDVMSCNPNVAVIHLGHSNG TVLSWS*AMKRLAKILCHRGGRVAVAVDSGTGMATSGLDHQL KIFDLRGTYOPLSTRITLPHGAGHIAFSQRIHIVAGMGDVVNIWA GKSKASPSLEQFLTHKLSGPHGLQCFPEVDLVGVTGGTIL SMLPVAGGEFNFGLSESPFHSRQKQEWKALKLEKVPALIC LDKRALAEVIVLSLECKKQIGLGLYDPAKAPFPKPKQKGR SSTASLVRKKEVMEDEHRDKVQSLQQKHKAIAKPYGARPS ALDFVFR
6253	27	1897	EEFTWIAVVGEMETAFKPGQVFPKKKLOTKRKKRYNNEE ETVPTTAGASPGPPRNKKNRLRQRPKNAYILKKSRIKPKQV PKKREWQNPESQRLSGAQDPPGPAVPVVEVVKFCRIDESR KLPHSKAKTRSLLEVAABEEETSIIKAARSELLAEPPGLEGE DOEDTAKICQADIVEAVDIASAKHFDNLRFQGPYRINYSRTG RHLPFGRRGRHVAAALDWVTKKIMCEINMVAERDIFLHSEALL

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			AVAQNRNLTNYDNGQITELHCTRRCDRVTRLEPLPHFLLATASS TGFILTYLDVS/GKIVAALNARAGRLDVMQNPYNV IHLGHSNG TVSLWSAMKEPLAKILCHRGGRVRAVAVDSTGTVMATSGLDHQL KIFDLRGTYQPISTRILPHGAGHLAFSPQROLLVAGMGDVVNIWA GGKASPPSLBQPYLTHRLSGPVHGLQCFPFDVLGVGHTGGIT SNLYPSAGSPNDTOLSSNPVRSRQRQCEWIEKALLEKVPABLIC LDPRALAEVDVISLBQKQKQIEBLRSYIDPQAKAPFPQPKQKGR SPTASLVKRRKRVMDSEHRDKVRQSLQQQHKEAKAKPTQARP ALDRFVR
6254	155	1139	HALGRGGSGQLSAAAGCPALRLRAPSSORPLATGGAAPAGL GGAPRFPFPGSAGRTIMLLKYEYRCMPITVDEVKIQOVLVMSKH SHEQSDRGEQVEVVEQNEPFDHPHNGQFTKRVYLSKLPSKA RAVVPKIPFYVTEKANNYYPTITEYTCFLPKFYSIHETKYEDN KGSNDITPDNEAKDVEREVCFDIACDEIPERYKESDEPKHFK SEKTRGQGLREGNRDSDHPIMCSKLVTVKPFVWGLQTRVQDFV HKVVRDILLIGHROAFAMVDWYMTDMDVREYERKMHQVETNIK VQNQHSPPVDDIESHAQTS
6255	1	1444	PIRPOQELLVSCATVIVASQKALSVEKAVIKQQLSVESNWT VTRFARQASRKNHMDAKELYQLLTQVASKHFFWNLNKEFS HARQCITGLQENFSSAGSCIAEGLFPHHGASLTAAS*P LNP LSFQCFPVRLDILDLQAPSGILCTOSNLSNPPALAKTTAMTL GNDLQCGRISNQKQSKNEKFLSLASRYGDLVQASFDASLRL NVELCOQSCILLISHALEALLDPESASPCYQSTGTAAHDSYE RRMMSVYNHVLKREKVSINGKTYPVYMGATACLNATIALKVP LSPQRYFQKLQSTS IKLALSPFRNPASPJAVQNNQALAKVQ VVRQSGKFLGRKTIQSCVLNVSSTLQSKSQDQYKPIINNTHM EQRVEPHNDYFSTQFLNFAILGTHNITVSSVKDANGIVKWTG PRTTIPVKSLIDPYSQOIRLQQOQAOQPLQOQOQNRNAYTF
6256	1	1542	CRGAGAEFAANPSRSLVPSLESTSTVPPAPOTVATDSWALA VDEQEAASLSNLHLKSEKI KPDTHGAVKTNANAETDDEEK EDRAAGSLNKLIRSNLVDNTHQVEVLQDRDPSFLYSVKSFEEL RUKPOLQGVYANGFSPRSKIQENALPMLALPEPQNLIAQSQSG TOKIALPFLAMLSQVEPARKYPCCLCLSPYTELALQTRVIEQM GHFYPELKLVAKSKRLERQSKISLQIVTQPTVLDWCKELK FIDDKIKKIVPLDADVWNCATQKIQDQSGIRIQWLPWQCMLE SATPDSVWKFQVVPDVLVWKLKBEETLDTIKQYVLCSSR DEKPOALCNLYGAITIAQMI PCHTEKTASNLAEELSKBHQVA LLSGEMMVEQRAAVIERFRGKELVLTIVNCARGIDVQVSVV INFDLPVDKQGNPDNETYLHRIQRTGRPKRGLAVNMVDSKHSN NINRITQEHFNKIKIERLDTDDLEBKIAN
6257	210	615	APTAMAKILQKLLQGEVEKYQQLQKDLKSKMSGRQKLAEQLTE NNIVKEELALLDGSNVVFKLIGPVLVQKQGRARATVGRKLDYI TAEIKRYESQLRDLERQSQEQRTLAQLQSQFCRAQAAGAGAP KA
6258	210	615	APTAMAKILQKLLQGEVEKYQQLQKDLKSKMSGRQKLAEQLTE NNIVKEELALLDGSNVVFKLIGPVLVQKQGRARATVGRKLDYI TAEIKRYESQLRDLERQSQEQRTLAQLQSQFCRAQAAGAGAP KA
6259	2	1540	ILSKGPPSCQCHZKRWKVDVLESSQCHSDHDFWELLFHNKIV SVENGRDSKXTENLGDIVLARNYPKIQSQRNCLNLSGLII SKNCSKPKDPEFVVCBKLLIDIRHEKIPIGKYSKYVDQRNAT NYHQDLQSPSPQGSFEYSKNGQGFDEAPPTNKRSQIGETVCK YNRCGRFTIRSLKLNISORPHLEMEFPYGCISCGKSCMMLRPH QRALTKDNPIYENKYGFTCDNSAFI HQGAYTRKILREYKVS D KTWESALLKHQIVHMGQSKSYDYNNGSNFSKSHLTLORRAHT GEKTFECGCGKTFWKSNTLQIQRTHTEKPYBCTRCGKAFQCO

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5260	2081	1436	KPHLTNQHRTHTGKFPYCKQGGKTCVKSNLTETHTHTGKFPYECNAAGKSFCHRSALTIVHQRTHTGKFPFICNECGKSFVKSNLIVHQRTHTGKFPYKCNCGKTCFCKSALTIKHQRTHTGKFPYECNACGKTFPQRSVLTKHQRITHTRVKALSTS
5261	3	1188	GTGPEIHACAHASARAPGSRALRELVCLLGDTGVKSSIVWRFVDSFDPNINPTIGASFMKTQVQYQNELHKFLIMDTAGQERFRLAPMYIRGSAAAIIVYDITKEETFTSLNWWKELRQGGPPNI VVALAGMKGLIDVREVNEDAKDYADSIIAIFVETSAKINAINI NBLTITELERIDSTDAHLPSGOKGPTKLARQSPKSSCC
5262	2	1759	FMYRLQGTSTSRWPRGRGHAASIVPQSGPSALVTSFPCPDPLRSPACEPCRPDFAFPALLRSLSPSAPVTVGPKALQGQPPWPGMAEVSIDUSLQGVKVCDFAVLRDHTLAHSLQGEIEHHLAS NVQRNRLVQHDLOVAKQLQEEEDLKAQAOQLKRYKOLEQDQCSRIA QBIQEKLAIAERERRIQEKKEDIDARLLQEKELQEKERKKHFP EFPATRAYADSYVYEDGGMKPRVMEKAVTSPSRUHRDQEWYDA EIAKLQEEELLATQVDMRAQVAQDEEIARLMASEKKAAYKKA KEREKSSLDKRQDPEWPKPTAKAANSKESDEPHISKNERPAR PPPPIMTDGEDADYTHFTNQSSSTHPSKSSSHKGPYHKH
5263	1	2408	PECHSGLCSVHRPGKVPQARSGSLVQLQDREPAGHRLQSEKILL GSTRVLSQGLEALRSKHQAVLSLSQTTECLQQGHEGLVHEK AQLRKSMENITELGLSEAGVMLALASHLSTVESEKQLRAQVRR LCQENQWRLDRLASTQRLORSEGAQVLESEKHELEFLGQLRQ VLDGIGTSBEKSGDANKDLSLDLPFHEEDSSNLSNGGQATATA AQGGVYEPARLTLNLIIVIQAKQGRVYAVVPLCTQALDELER TSGRHPDVAITMLNLIAYVRRQNKYKEAAHLMDALSTRESLTP GDHPVAVAATMLNLIAYVRRQNKYKEAHLMDALSTRESLTPGDHPVAQKLNLIALLCQNGKTEAVERVQRALAIYEGOLGPDNPNVARTKNLNASCYLKQKGYAZASTLYKEILTRAHVQFGFVSDD DHEPIMHAEERREMSKSRHHEGTPYAEYGGWYKACKVSPTVNTTLNMLGLYRRQKLEAAETLEECALSRRGQDTPISQTKVA ELLGESDGRRTSQBPGDSVKFEGGEDASVAVENSGDGSGLTQRSGSLGKIRDLVLR
5264	143	1960	RELDLSADLPRIKPPYANGLSTSHLRSSSVEDVKLIISEGPT IEVRRCSMPSVICHNTKQFQTIISEENQGSLLTVPGDTSPPSKP EVFSNVPRLDLNVSHTISSFATSPGASNGKYVSAORNLKINT APNVTWMSVPLBSGQVIVQNKSWEMVRLLETSLTRDFTIC PMSNIIDQBSLSQFCNSGEKVLKEMAFSLRGTLPNSCAQ DPASFPQPGQCSFPSQSLSDAESISKMSI.SYVANQEPQLIQ KNAVQIISALDTONESTKDTEPTFVLQVQKTAFAFVVSDET IQEASPNFEKAYTLVPLFSKDPNGSDASTQNLTHYAFSKLTYK SSGHEVENSTDTQVTSHEKKNLSESLVLTLSRCDSDLCEMN AGMPKGNLNEQDPKHCPESEKCLLSIEDREESQSLSLSENHSQ QSTQPEMKHYGQLVLEENAEADKTEQIIPQMTNKNKANTMA NQSKQILASCTLLSEKDSSESSPRGRILTEDDDPQIHHPRKRK VSRVPQPVQVPSLLQACEKQTSJLAIIVDSLKLDEIQPYSSER ANPYFEYLHIRKIEEKKRLCSVIPQAPQYDYDTVTEGYSYLL DGNPLSKICITITPPPSLSDPLKELFGQEVVRMKLRQHSIE REKLVSMGEVLRVHYHAARTLANQTLPFSACTVLLDAEYVNP PLDSQSDISKTSVKDRPMARQPMGLQDVDRFDKLTCLLMKQ QHKAALANAVQLEWQLQLQELDFATYKTSIYKIQEFTVPLVD VDDDFELTPI
5265	143	1960	KHGGNNALMAPEIHTPTWPCLENTNGLNPNPEALTKLSAT QPVPVVAIVGLVYTKSXYLWKLAKGKKGPSLGTSTYKTKGI WNCVCVHPKPKPETHLVLLDTGELQVKKGNUNDSNITFTLAVLL SSTLYVNSMGTINQOAMDQIYVTELTHIRSRKSPDENENEDS ADFVSFPDFVWTLRDFSLDLKADQPLTFDEYLEYSKLTOGT

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6265	143	1960	SQKDNFNLPRICIRKFPFKKKCFVFDLPHRRKLAQLEKQDE ELDPEFVQGVADFCYSYIFSNSTKTTLSGGIKVNGPRLESILVITY INATSRGDLPCMNNAVLAQAQIENSAVQKALAHYDQMGQKQV LPARTLQELLDLHRVSEREATEVYHKNSPKDVHLPQKLAQQL DKRRDPCQKQEQASSDRCSALLQVIFSPLEBEVIGAGIYKPGG YCLFIQKQDLEKKYIEEPKRGIOAESILQTYLKSRESVTDAIL QDQILTEKKEKIEVECVKASQAQANVEEMQIKYQMMEEK EKSYOEHPKQITKEMERERQAQLEBQKTLSEKQLQEQARVLKER CQGESLQNEIQKLOKTLKKTKRYNSHKLKI
6266	276	1421	KHRQNNALQWAFYIHWGTPACILIENTGELVANDPALKILSAI TQPVVVVAIVGLYRTGKSYLAKNGKGFSLGSTVKSXKGI WMKCVPHPKPEHTLVLLDTEGLGDVKGKGNQNSIPTLAVLL SSTLVYNSMGTINQAMQGLYVITELTHRKSKSPDNENRDS ADFVSFFPDPVMTLRDPSLDRAQGLPTPDSYLEYSIKGTOT SQKDNFNLPRICIRKFPFKKKCFVFDLPHRRKLAQLEKQDE ELDPEFVQGVADFCYSYIFSNSTKTTLSGGIKVNGPRLESILVITY INATSRGDLPCMNNAVLAQAQIENSAVQKALAHYDQMGQKQV LPARTLQELLDLHRVSEREATEVYHKNSPKDVHLPQKLAQQL DKRRDPCQKQEQASSDRCSALLQVIFSPLEBEVIGAGIYKPGG YCLFIQKQDLEKKYIEEPKRGIOAESILQTYLKSRESVTDAIL QDQILTEKKEKIEVECVKASQAQANVEEMQIKYQMMEEK EKSYOEHPKQITKEMERERQAQLEBQKTLSEKQLQEQARVLKER CQGESLQNEIQKLOKTLKKTKRYNSHKLKI
6267	3	622	GSQKQMLVPCPLYSQNRKPLSYGLSLTQGLDGLDIPFVTASE GFTVNEINKKSIHISCPCENASSKFLAPYITFSRIHTKSLTCLD ISSRGGLGVSSSDGTMTKIQWASNGELRVLEGHVFDVNCRRFP PSGLVVLGGMDAQLKWSAEDASCVVTFPGHKGGILDTAIVDR GRNVVASRSGDTARLDGCRSACGLVADCGSSINGVAVGAADN SINLGSPEQMPSEREVGTBAKMLLLARDKLCGLGLOSRLVF LPIGSDAFNCTFLSGFILLAGTQDGNIQYLDVRSRAPVQVVIH RSGAPVLSILSVRDGFIASQGGSGCFIVQDLDVLTETLGADCD PVYKATWEKQIYTCRDLGLVRRYQSLDL
6268	160	1368	LGSRKRNKSAKIGQDGGQQAPEFPGVGRVFKSGRIFREIWK NRYVLKQDGLYIGBIVYDDEHIOBVPDLSYKCEHAKSKS RSKNHSKPLASQKQGNVAHLLIPLAVSEKCEGNALIASA ITRADRILDFVDEYDYLAEPTDRAKIQSRFPTRGHMA VASTSTSDGMLTDLIQEEDPSPREPTSLC
6269	2886	1449	HRELCONLEAGLSSALINDPLTLLSLVWLQEFVFGDVAV DFRSEWGLGPTQRTYRDVMLTGHILVSWGHMETLENKELA PNSDIPEKEPAPSLKVQSSRDICALSSTLEDTLQGQGVQDQTV LKQMSAQEKDLPQKKHFDNRBSQANSALDTNQVSLQKINDNE SQANSALDTNQVLLHKIPPRKRLRKRDSQVKSHKNSRVKIHQ KSCERQAKVEGNGCRKTFRSRTKQITFIRIHKSQVCRCEOGK IFRNPRYFSVHKIHTGRPRVQDQGGKGFVQSSSLTQHQRVHS GERPFQECRGRFTNDRSAISQHLRTHTGAKPYKQDQGAFRQ SSHLIHQRTHTGERPYACKKOGKAFITQSHLIGHQRTHNRTRK KKKQPTS
6269	2886	1449	HASAPTRNNMAASPLRDCRANKARLPSTISNEACKLPDAIL TQYVWNRDGLSGISBGLAKAATFPMGRNATQGLVIGT GSYKLDKLLDAVKIWEISSTQPLTRHQQLYHNAVITTAEN FFXACELAEQILQDHPDMLAKFSHDAFYLYGYOQRMSVAR IYPTWPTDIPLSSVYKIGYSFGIANETNPYQAKIAKALASINP TDANSVHTVAHIHEMKARIKDGLFMOQSETLWDSMDLACHNY MEWALYLIEKGEYAAITITDTHILPSLQNDAMLDVDSCSML YRLQMEGVSGQRWQDVLVPARKHSRDHLPNDAHFLMASLGA HDPQTTQBLTTLTRDASESPGNCQRLARDVGLPLCQALVSE

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6270	23	2086	DGNPDRVLELLLPTRYRYVQLGGSNQRDRVFNOLLTHAALNCTSVHKNVARSLLMERDALKPNPLTERLRIRKATVHLMQSVTVTLGSEGDGRPPPTYHLEEMERQPNQGEPAEIKTIREAYKKAFLFVNHGIMTDLGQKEEAKNYTKQGIHLLRGISSSKSESEHTGPGVESARQMCKMKTLLQNVKTRLEILEKGLATSLQNDLQEVPKLYPEFPFKDCEKLPDEQSPSSAPQAEVNGNNTSPFAGAVAAAPASLSEFSSQCAAPPAVTTCAABGHVYTSYGTDSGEFSSVGE EPHYRHSOPFPLETLGLADDELLILENGVQIEFFVWAGVSAPSYPGYIRIVRFLDNLSDIVLNRPPGLQVQCNLYPLVPRSPVLKCTAGAYMFFDTMLQAAGCFVGVVLSSELPEDDRELPEDDLRLQMSDLRLQANWNRASEENEFQIPORTPSSDQLKEAGSTVVKLQDQGNKDVHRHGKGRKAKDTSSSEVNLSHVCEPVFEKPKELPENSEKVAHNILSGASVWSNGLVKAGBITGKAIQKGASKLREIROPEKPEVUSPAVTIGLYIAKATQGAAGVQSLVDGVCTVANCVGKELAPHVKKHGSKLVPSEKKDKDQKSLDGMVVAASSVQGFSTVWGLECAAKCIVNNVSAETVOTVRYKYGNAGAEATHAVIDSAVNVGYTRYNNINIGIKAMVKKTATQTHLTLEFDYQIVDISQRENQEGAAVNVVRGEKDEQTEKVEKAKKCKGCGTCTAGMVGKEKELSHPFVSGSCRLVSEEVNIPNRRVLTGTA TGLGRALVEKFCQNMWHAACGFRARPFQVNLDSNAVHHI IHDQFQPRVIVCAAEPRPVVYQDPAQSNLTDASGALAKBA AAVGAFILYISSDVVDQTPNPYRESDIPAPILNYKTKLDEKAVLENNLGAALVRLPILYGEVKELESATVTMFKVQPSIKSANMDHWQCRFPFTHVKDVAIVCRQLAEKRLDPSIKGTENSGNEQM TKYEMACAIADAFNLPSSHLRPTIDSFVLGAQRPRNAGLDCSKL ETLGIQORTFPFRIGIKESLWPELIDRVRGRTVFHGAVMEDAAAPRTEGVLREQAPPAAGGGGALVELATPFGGLALVSPYTHRAGDPLDLVALAEQVQADEFIRANATNKLITVIAECI QHLQEQARKVLEDAHRDANLHRVACHIVKPNIIYLYKRESGQ QYFSIISPKEWGTSCFHDPLGAYKLQDLSWTFYEDIEKQDAKISMDNTLLSOSVALPCTEPTPFQGLTHSCFPRVSPCKSLGQVMSFLPNCSPDEIRKSGCWGRFQDLKIASAAWNSKCHCAGAAARQHQARTLWTDKRPVYVMEPCVEDSTDVHVLIEDHIVFSCNADQVLELNEITFAKVNKDSQCKRSSRSITCFPVKWKDKVAFNPLTKEDIKPVNLSVDVDFNRWEGDEME LAHVHYAEVRDNTYCVLPTAAAAAAGGGAGAAASLSRFRGCLAGALLGCVGSEYKNDIVLDTSLVLRHVQSLPEDPQTPGSEBTEALYYTDTAMARALVQSL LAKEAFDEVDMAHRFAQYEQKDPDRGVAGGVVTVFKKILNPKCR DVFEPARAQPNQKGSYGNCGAMRVAGISLAYSVQDQKPARLS AQLTHASSLYNGAILQALAVHIALQGESSSKHFLKQLLGHMED LEGDAQSVLDARELGMEERFYSKRLKIGELDQASVTREEVVS ELGNGIAPFESVPTAIVCFPLRCMXPDEIISAFNLSQRTLLYSI SLGGDTDTIATMAGALAGAYGMQVPSWQGSCEGYEETDILAQSLHRVFQKSSRGRARCLARGSRKRPVPRDAKTAVNWKTMVGGQLNLTGSLG GGBGDKGDKSAAAKGMSREYEEYQKQVVEKMERDAQFTQRAKARATLRSHFRDKYRLPKNETDESGIQMAAGVELPRELAKMI SRDTREEEKASVLQIASLPLGNTLSGLDKKACATLGDLSQASR KCHVM TLEPLFLPDTGNTILNLTGLGCVLENRPFTVTPSPGNTLTL SCLQQLATHRPHGMHILQIAFPAALRPSLALLARLSLGLLHW PVMGAKTSHGFSVPGHVAGRELLTAVAEVFPHTVAPGNPEEV LGSGYREQLLTLMLELCOGLMQPVPQNCAMLLGHSTAGAIGRL LASSPRATVTEHNPAGGDYASVRTALLAARAVDRTRVYRILPQ GYHKOLLAHVGRN
6271	32	1058	GGTCTCTAGMVGKEKELSHPFVSGSCRLVSEEVNIPNRRVLTGTA TGLGRALVEKFCQNMWHAACGFRARPFQVNLDSNAVHHI IHDQFQPRVIVCAAEPRPVVYQDPAQSNLTDASGALAKBA AAVGAFILYISSDVVDQTPNPYRESDIPAPILNYKTKLDEKAVLENNLGAALVRLPILYGEVKELESATVTMFKVQPSIKSANMDHWQCRFPFTHVKDVAIVCRQLAEKRLDPSIKGTENSGNEQM TKYEMACAIADAFNLPSSHLRPTIDSFVLGAQRPRNAGLDCSKL ETLGIQORTFPFRIGIKESLWPELIDRVRGRTVFHGAVMEDAAAPRTEGVLREQAPPAAGGGGALVELATPFGGLALVSPYTHRAGDPLDLVALAEQVQADEFIRANATNKLITVIAECI QHLQEQARKVLEDAHRDANLHRVACHIVKPNIIYLYKRESGQ QYFSIISPKEWGTSCFHDPLGAYKLQDLSWTFYEDIEKQDAKISMDNTLLSOSVALPCTEPTPFQGLTHSCFPRVSPCKSLGQVMSFLPNCSPDEIRKSGCWGRFQDLKIASAAWNSKCHCAGAAARQHQARTLWTDKRPVYVMEPCVEDSTDVHVLIEDHIVFSCNADQVLELNEITFAKVNKDSQCKRSSRSITCFPVKWKDKVAFNPLTKEDIKPVNLSVDVDFNRWEGDEME LAHVHYAEVRDNTYCVLPTAAAAAAGGGAGAAASLSRFRGCLAGALLGCVGSEYKNDIVLDTSLVLRHVQSLPEDPQTPGSEBTEALYYTDTAMARALVQSL LAKEAFDEVDMAHRFAQYEQKDPDRGVAGGVVTVFKKILNPKCR DVFEPARAQPNQKGSYGNCGAMRVAGISLAYSVQDQKPARLS AQLTHASSLYNGAILQALAVHIALQGESSSKHFLKQLLGHMED LEGDAQSVLDARELGMEERFYSKRLKIGELDQASVTREEVVS ELGNGIAPFESVPTAIVCFPLRCMXPDEIISAFNLSQRTLLYSI SLGGDTDTIATMAGALAGAYGMQVPSWQGSCEGYEETDILAQSLHRVFQKSSRGRARCLARGSRKRPVPRDAKTAVNWKTMVGGQLNLTGSLG GGBGDKGDKSAAAKGMSREYEEYQKQVVEKMERDAQFTQRAKARATLRSHFRDKYRLPKNETDESGIQMAAGVELPRELAKMI SRDTREEEKASVLQIASLPLGNTLSGLDKKACATLGDLSQASR KCHVM
6272	1136	528	GAVMEDAAAPRTEGVLREQAPPAAGGGGALVELATPFGGLALVSPYTHRAGDPLDLVALAEQVQADEFIRANATNKLITVIAECI QHLQEQARKVLEDAHRDANLHRVACHIVKPNIIYLYKRESGQ QYFSIISPKEWGTSCFHDPLGAYKLQDLSWTFYEDIEKQDAKISMDNTLLSOSVALPCTEPTPFQGLTHSCFPRVSPCKSLGQVMSFLPNCSPDEIRKSGCWGRFQDLKIASAAWNSKCHCAGAAARQHQARTLWTDKRPVYVMEPCVEDSTDVHVLIEDHIVFSCNADQVLELNEITFAKVNKDSQCKRSSRSITCFPVKWKDKVAFNPLTKEDIKPVNLSVDVDFNRWEGDEME LAHVHYAEVRDNTYCVLPTAAAAAAGGGAGAAASLSRFRGCLAGALLGCVGSEYKNDIVLDTSLVLRHVQSLPEDPQTPGSEBTEALYYTDTAMARALVQSL LAKEAFDEVDMAHRFAQYEQKDPDRGVAGGVVTVFKKILNPKCR DVFEPARAQPNQKGSYGNCGAMRVAGISLAYSVQDQKPARLS AQLTHASSLYNGAILQALAVHIALQGESSSKHFLKQLLGHMED LEGDAQSVLDARELGMEERFYSKRLKIGELDQASVTREEVVS ELGNGIAPFESVPTAIVCFPLRCMXPDEIISAFNLSQRTLLYSI SLGGDTDTIATMAGALAGAYGMQVPSWQGSCEGYEETDILAQSLHRVFQKSSRGRARCLARGSRKRPVPRDAKTAVNWKTMVGGQLNLTGSLG GGBGDKGDKSAAAKGMSREYEEYQKQVVEKMERDAQFTQRAKARATLRSHFRDKYRLPKNETDESGIQMAAGVELPRELAKMI SRDTREEEKASVLQIASLPLGNTLSGLDKKACATLGDLSQASR KCHVM
6273	256	843	SCFPRVSPCKSLGQVMSFLPNCSPDEIRKSGCWGRFQDLKIASAAWNSKCHCAGAAARQHQARTLWTDKRPVYVMEPCVEDSTDVHVLIEDHIVFSCNADQVLELNEITFAKVNKDSQCKRSSRSITCFPVKWKDKVAFNPLTKEDIKPVNLSVDVDFNRWEGDEME LAHVHYAEVRDNTYCVLPTAAAAAAGGGAGAAASLSRFRGCLAGALLGCVGSEYKNDIVLDTSLVLRHVQSLPEDPQTPGSEBTEALYYTDTAMARALVQSL LAKEAFDEVDMAHRFAQYEQKDPDRGVAGGVVTVFKKILNPKCR DVFEPARAQPNQKGSYGNCGAMRVAGISLAYSVQDQKPARLS AQLTHASSLYNGAILQALAVHIALQGESSSKHFLKQLLGHMED LEGDAQSVLDARELGMEERFYSKRLKIGELDQASVTREEVVS ELGNGIAPFESVPTAIVCFPLRCMXPDEIISAFNLSQRTLLYSI SLGGDTDTIATMAGALAGAYGMQVPSWQGSCEGYEETDILAQSLHRVFQKSSRGRARCLARGSRKRPVPRDAKTAVNWKTMVGGQLNLTGSLG GGBGDKGDKSAAAKGMSREYEEYQKQVVEKMERDAQFTQRAKARATLRSHFRDKYRLPKNETDESGIQMAAGVELPRELAKMI SRDTREEEKASVLQIASLPLGNTLSGLDKKACATLGDLSQASR KCHVM
6274	56	1142	AAAAAAGGGAGAAASLSRFRGCLAGALLGCVGSEYKNDIVLDTSLVLRHVQSLPEDPQTPGSEBTEALYYTDTAMARALVQSL LAKEAFDEVDMAHRFAQYEQKDPDRGVAGGVVTVFKKILNPKCR DVFEPARAQPNQKGSYGNCGAMRVAGISLAYSVQDQKPARLS AQLTHASSLYNGAILQALAVHIALQGESSSKHFLKQLLGHMED LEGDAQSVLDARELGMEERFYSKRLKIGELDQASVTREEVVS ELGNGIAPFESVPTAIVCFPLRCMXPDEIISAFNLSQRTLLYSI SLGGDTDTIATMAGALAGAYGMQVPSWQGSCEGYEETDILAQSLHRVFQKSSRGRARCLARGSRKRPVPRDAKTAVNWKTMVGGQLNLTGSLG GGBGDKGDKSAAAKGMSREYEEYQKQVVEKMERDAQFTQRAKARATLRSHFRDKYRLPKNETDESGIQMAAGVELPRELAKMI SRDTREEEKASVLQIASLPLGNTLSGLDKKACATLGDLSQASR KCHVM
6275	20	565	SRGRARCLARGSRKRPVPRDAKTAVNWKTMVGGQLNLTGSLG GGBGDKGDKSAAAKGMSREYEEYQKQVVEKMERDAQFTQRAKARATLRSHFRDKYRLPKNETDESGIQMAAGVELPRELAKMI SRDTREEEKASVLQIASLPLGNTLSGLDKKACATLGDLSQASR KCHVM TLEPLFLPDTGNTILNLTGLGCVLENRPFTVTPSPGNTLTL SCLQQLATHRPHGMHILQIAFPAALRPSLALLARLSLGLLHW PVMGAKTSHGFSVPGHVAGRELLTAVAEVFPHTVAPGNPEEV LGSGYREQLLTLMLELCOGLMQPVPQNCAMLLGHSTAGAIGRL LASSPRATVTEHNPAGGDYASVRTALLAARAVDRTRVYRILPQ GYHKOLLAHVGRN
6276	797	97	TLEPLFLPDTGNTILNLTGLGCVLENRPFTVTPSPGNTLTL SCLQQLATHRPHGMHILQIAFPAALRPSLALLARLSLGLLHW PVMGAKTSHGFSVPGHVAGRELLTAVAEVFPHTVAPGNPEEV LGSGYREQLLTLMLELCOGLMQPVPQNCAMLLGHSTAGAIGRL LASSPRATVTEHNPAGGDYASVRTALLAARAVDRTRVYRILPQ GYHKOLLAHVGRN

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6277	4600	2744	MAPRTENGLYSYFTKIVAPSSFLNGVMIMNDKLTETPLVINT LKRFNLYPEVILASWYRIYTKIMDLIGIQTCKIWTIVTIGBLSPTESCEGLGDPACFYAVIFILNGLMALFFIYGTILSGSELGGLVTVLCTFFPHGSECTRMVMTPLRESFSYFFVLQMLLWTHILRA TKLYRGLIALCISNVFIMLFQWQFAQFVLLTQIASLFAVYVVG YIDICKIRKIYIYHMSIALCLFVLMFGNSMLLTSTYASSLVIWGLAMKHPFLKINVSLESLMWIQQCFWLFPGTVILKYLTSKIPGIA NDAHIGNLNTSKFSFYKDFDFTLLYCAASFDFMEKSTPLRYTKT LLLPVVLGSPVAIVRKIIIDMWSVLAQQTHVRRHQFDHGLVY HQLQLLAYTALQILINELKLLFTWNVVASLISCSRLPQWPC KVPFGAIVFALIAAMSIGGSANLQTNWTVGSPMLPOEISEW IKYSTKPDVAFAGAMPIMASVKLSALRPVNHPHYEDQALRAT XIVYSMYSRKAAEVEKRELIKLVNYYILEESNCVRRSPGCGSM PEIWDVEDPANAGKTPLCNLLVVDKSKPHFTTVFQNSVYKVLVW KE
6278	3	823	ILFRLVLSIVYLLNSVATEERKPAEVLIVEGOQYAVVGTVLLL IRIILEYCGQVDNIIPSVTIDMLTRLSDLKLYFNRSRQCVLGAG ALQVGLKTIITTKNALSRCLQLIVHYIPVIRAFPEARLPPIQ YSMRLRPHNITKDYHDIHAEISAKIVAIMDSFDKLISKYEKVA YFPSACFRNICKQMTQMHEATPOLLPBESQTOMLFLRINASVYKH LKGLKSHLVNIDGGPQNGVLVDVAFYTGMLQALGKLDDLDIN MAELWQGR
6279	127	1687	GGWASDQARKQFPMKRSNKLPGSGTQVHVGQJFFPDLILGL LRSATKMPVTTPVAKRVSTQFQFSENSTDAWDAGDDDELLAMA ARESLSEVVMETANRVLRNHSQRQRPLTQRQGLQOKPREAE PPSPPSGDLRLVKSVSRSHTSCPASASDAAPLQRSQSLPHSAT VTLGGTSDFTLSSALSREASRLDKFQQLLAGNTDLEELRL LSWSGIKPVRPMTWKLSGYLPANVDRRPAATLQRQKQEFYFPI RHYYDSRNDVHQDTYRQIHIDIPMSPEALILQKVTETIFRRI LFIWAIRHPFAGYVQGINDLVTFVTVFICEYIEAEEDVTVDS GVPAEVLCHNIEADTYWMSKLLDQENYTFPAQPGIQMKVMGLE ELVSRIDEGVRHLLQHEVRYLQFAPERNNLLMKREVPRLCTIR LMDTYOSEDPPSHFLHYCAALPFWHRKSLLEKDFQELLPL QNLPTAHWDDEDISLLIAKAYRLKFAADANVYK
6280	857	2515	ECCDQWGSNENSHAGSGSGHPSGLPRRAGLRSEEESEDE DVIDLAQVLAYLREBQVRLVQGGANLQFIQALLDSEENCDRA WDRGLGRDYNPPVDATPTRELEFNEIKTQVELATGQLGRRAA QKHSFPEMLHQREGLCHRGFSFSGQSRVISHFLPNDLGFTDS YSQKAFCGIYSKDGQIFMSAQDQOTIRLYDCRYGRFRKFKS IKA RDVGSVLDVAFTPDGHNFLYSSWSYIHIICNIYEGDHTALD LRPDERFAVFSIAVSDGRVFGANDGCLYVFDREQRNRTLQ ISHSHDDVNAVAFADISSQILPSGGDDAICKVNDRTMRDDPK PVGALAGHQDGIITPDSGDAYRLSNSKDQITKLMDIRFSSR BMEASQAAATQGWDRWQVFKKAWRKLKLPQSSSLMYTGRH QVILFTLRCPSTHYSQGPFIYSGCSGTRKVVYDLSGHIYKK LTHKACVNDVSHDPFEKIVSSGWDGMLRLMQTRQAEYQDDM PSEECASAPAPVQGSSTPFSRQ
6281	857	2515	ECCDQWGSNENSHAGSGSGHPSGLPRRAGLRSEEESEDE DVIDLAQVLAYLREBQVRLVQGGANLQFIQALLDSEENCDRA WDRGLGRDYNPPVDATPTRELEFNEIKTQVELATGQLGRRAA QKHSFPEMLHQREGLCHRGFSFSGQSRVISHFLPNDLGFTDS YSQKAFCGIYSKDGQIFMSAQDQOTIRLYDCRYGRFRKFKS IKA RDVGSVLDVAFTPDGHNFLYSSWSYIHIICNIYEGDHTALD LRPDERFAVFSIAVSDGRVFGANDGCLYVFDREQRNRTLQ ISHSHDDVNAVAFADISSQILPSGGDDAICKVNDRTMRDDPK PVGALAGHQDGIITPDSGDAYRLSNSKDQITKLMDIRFSSR

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			EGMEASQAATQONWDYRQOVPPKAWRKLKFGDSLSMTYRQH GVLAHTLIRCRFSPIHSTGQQQFVSGCSTGKVVVVDLLSGHVKK LTNHKACVRDVSWHPPFEKIVSSSDGNLRLNQYRQAEYFQDDM PESEECASAPAPVPQSSTPFSFSSQ
6282	125	966	RKAACRALKAVLDVLSGTLHIEDAAVPGAGELKRLRQASVITR FVHTTTKSSKQDLLEKRLKLFDSIDEIPTS/LTAARSLLERKQ VTPMLVDORALPOFGTQTSDFPAAVVGSLAEHFYQILNQAF RLLDGAPLITAHKARTYKKGDLALGPPFTALSYATDTTKAT VVGKPEKTFPLALRGTCGCEPPEANVIGDDCDODVGAQDQWML GILVKTGKYRASDEEKINPPVLTCSFPAVDHILQHLL
5283	140	1043	LSLFGIHMNPFMSMSTSSVRKESFEKEKRLDGVKTSPPRTAP KKQLPSIPKMLPITTKPTSPAPAAQSTNGTHASVGPVLEYSLL AEFTLVVQKQLPGVYVQPSRSLMNFVGFIRHGLYQDGVFKF TVYIPDNYPDGDCLPLVDFIPVHPLVDPTSGELDVKRAFAKWR RNHNHIVQMLYARRVYKIDTASPLNPEAAVLKEDIQLFESK VVDSEVKCTARLPDQKIEDPVALSFSFNPNSVHDEAREKMLTQ KKKPEQHNSKSVHAGLSWVKSGVQPSSEKKTAT
6284	1	2879	RSVTPGSTISSRWGLSRPFAAHAEHWDPREELIGQISDIRV QMLQVERSNVQRKTRTWINLHLEKCNPLEVDKLPVQIDGKI LJALLEVLSGRLLHBYKSSSHRIFKLNINIAKALFEDSNVGL VSTDAEADQPSVIALGILWVHLLPZIGLITONLSNSPSSS LAPSGGTDSSDSSPPTFAEBSVAISVKDQKALIKALAVVQR KTRKYGAUVDQFAGSWRSGLAFILAVKALDPSLVCMQALEVQR RENLEKAFSIAQDALHILPRLEPDIWDTPEQSIMTYVAGPL ERFPELEAEDIFDSKEVPIESTFVRIKETPSQESKVFVLTRN GERTYTNHETSHPPSPKVPVCDKPEKKEITLDDGVSSHLSDS STETMHQIIDQVLQGGPKGTSDISEPSPSSLSRRKENGSRNS LPIKKTVMFADTYKDPFCSKMLSLCFSGSPRAKESLRQDGHV LAVEVAEKEQKQESSKIPSSSDKVAGDILFVSGTNNNSQSSS CNGALESTARHDEESHLSLPGQENTVMADSPQIKNMLTVEALE EGDYFETIPLKASKNSDLIDFASSTQANRQVPSPHETKPDREA RAFENHARKLGRSISKAHKKKDSPEPQVQWDRKHPHQDSGEBA ECCSAPETTFVCKKEVHEKAKKRSKTPHYKEEEDDLQGVG EELSSPPSSCVSLLELSSHSSECLFEPPLSKVSVIPHDLF VFHYHVPPLAVALXAVVEDPELQLEENDLEEPGVGVDLDSRE EADDSQSSSSSVPGESLPSASDQVLYLSRGVGTTPASEBAP LAPHEDHQRETENDPMDSHQORSNLEHIANPLEBNVTKES ISXKKKEKRGVHDESSSLFVARGSVQSSDLEEDSDYSIPSR TSHSDSSIYLKHTHRSSSESDHFSLCSVZERSSRG
6285	2157	1331	SKCTENLLMNWFQQLSLPLSALVWFSAFIFSYITAVTLH IDPALPYISDTGTAPREKCLGAMLNTAAVLCIATITVRYQVH ALSPERNVILKLNKAGLVGLISLCLGSLIVANFQKTLFAHVS GAVLTFGNGSLVMFVOTLISYQMCPKTHGKQVFWIRLLLVWQV VSALSMLTCSVLIHSGNFGTDLBQRLHWNPDGKGVLMHTTAA ENSMFSFPGFFLTITRDQKILSLRVBANLGLTLYDTAPCPIN NERTKLISDRI
6286	1619	276	KAGASCCGSANFVSVSGKSVLLAMAQQLTRFYIDNKKYAVDDV PFSIPASEIADLSNINKLKDKNRPHKHYEDFLKQGLFARM PLDKIMEHNTSSSRVKEIVKRYETAPQPCQCHENLSSIK GABENHILGSDYKTSRWSLHGKSNITVQHTDVVQVDAWKKD LSLCLLSASMDOITLLWMNVKRNKVKALHCCCHAGSVDIA VDGSGTIFCSGSGMDKMLKWSVTPTDEDEMEESTNPRKKQKT EQLGLTRTPIVTLSGHNSAVSVLSNDAEETCSASWDHTIRVWD VESGSLKSTLTGNKVFNCISYPLCKRLASGSDRHRILWDFRT KXGSLVLSLTSHTGWTSVKWSPTHEQQLISGSLDNVLKWDWT RSCKAPLYDLAAHEDKVLVLDWDTGLLISGGADNKLVSRYRSP

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			TTTHVGA
6287	278	1482	MQFFPNFQIGLRSTSGKEKYSQDAGPITGALCLFICLQCLADEDF APAKLQVQKILCDLIGPENLKEGLKESNSSLPTCKNRPFDFHS VMKESQSLNBPSPQSEERIPEVTESEPVKSLNRAQSAQSINSTE MPAREDCIKRVSESEPVLSVQSEKGVLLKRLSLLEQDVIINEDGR NKLKKGQGETPNEVCMFSLAYGDIPEELIDVSDFECSLCMLRFFFE PVTTPOGISFCNCKLSRRKITYDEETAEELSLHITKXVPTPVCTHA QLLESLTYKVLDPDELSRRKITYDEETAEELSLHITKXVPTPVCTHA YPTVPCPLHVESEPRYLIMIKRSIQGTGKQFCXVSDTQNSPADY GCMQLIRNVHFLPDGRSVVDTVGGKRPVLKRGMDGYCTADIE YLEDV
6288	1	743	VTLYPCRGVGNLLGASQMSGCKTGPTSLNSDLANGAECLR MLDSGADYLIHLQVMDGHFVNITFGHPVVESEKRLQGDQPFDDM HMVSKPEQNVKFMVAGANQYTFHLEAENPGALIKDIRNGM KVGLATKPGTSVEYLAPWANOIDALVMTVEPFGGQKFMEDM PKVINLIRTPQSLDIEVDGGVGPDTVEKCAEGANHIVSGSAIM RSEDPKSVINLLRNVCSEAAQKRSIDR
6289	1	743	VTLYPCRGVGNLLGASQVSGCKTGPTSLNSDLANGAECLR MLDSGADYLIHLQVMDGHFVNITFGHPVVESEKRLQGDQPFDDM HMVSKPEQNVKFMVAGANQYTFHLEAENPGALIKDIRNGM KVGLATKPGTSVEYLAPWANOIDALVMTVEPFGGQKFMEDM PKVINLIRTPQSLDIEVDGGVGPDTVEKCAEGANHIVSGSAIM RSEDPKSVINLLRNVCSEAAQKRSIDR
6290	3	1856	TLGRNLLGVYETVAPTLACLPEPLRLRRRRRRRRNIRSYTRKA VPQSLLEKGITKHALNHHPPPEKLEISPTSDSEKDTSSQSKS DITRESSPTADTQNSLAFPSYTGAGISITQESDSSVNGVGLD QNATEKVQTMFTAIDELLYEQKLSVHTKSLQEECCQWASFPHL RILQRIITPSEGYRLYPRSPAVSASVYETTLQSERDSTFGIR GKHLHFSSSYAHKASSIAKSSSCFMSMERDEDSIIVSEIEEY LAFDHDITEEGPHQKKSRAATEKQKLYGPIIAPFYCMKEDVLAY VFDVVMCKVSCMRQLTRSHWEGFASDQESNVAVTRPDSESCV LSEHPLVLPRVPQSKVLYITSNPMSLQASRQPNVNDLVLVHG NPLQPNLSLMDKLLDLDKLLMFGPSTTLSTRNPNRAVEFS TSSLSYVQSTHRENPNPFTLHPISYSHSCATPRSVBEILRGA RVVPVADSLSSPSTPLSRNLLPPIQABVEHVSVCVPCQGMK PHGDSRAQSAVDEPNYQGPQERILLDPDFPRFVITSLDIT QYRRSCAVEYPHQARPGRSAGPQLHUSTKSQSGRPVSRTRQ3 P
6291	1732	602	LVAKNASSASARTPAGKRVINGEHLRLMKKQRLSTSRERTES FPKAYNRLQSLCALQNTPVKSLMLQTHVLGQHKREKVALKGS AKESQSSQSSASSAPQSVKRPADADDQVGRKATLVQVQPSPT SAWNTINDKIGKEFTIRATPSKPSGLSLDPYDEDEDEDEDEEGD GARRKQDASPLSDAQGKEHVSSSSEVTSVSLPNDPFSNTNPK APIIPHSOSIEKARIHKVVKRRIRNTARALPEGTFDCEPDAV RVKVIDPKQDMKEDWDFQKAMQVNTISRAIVKEDDEGRLLDRQ IGEDDEQIECYRRVSKLRNQAQDRLNKLKSLITIKELQKKEEN ALSDDDEBLQDLLSQDMRVKGAALL
6292	1935	1142	TCFGAKRWAPWTRFYNSCCCLCCHVRTGTIILGVNLYLINAVV LILLLSALADPQVNFSSSELGGDFEFDLANMCIALAISLIMI LTCRAWTYGAYQGRAMLIPEFCQKQIFDANMLVATVLYLPM SIQSYIROLPPNTPYRDDVMSVNPCTLVLLILFSLITFNGY LISCVMNCRYINGRNSDVLVYVTSNDTTLVLPYDDATVNGA AKEPPPPYVSA
6293	2382	1035	FWCTLTGVVDVHPGWCAINSRLVPPFTTHAKPTDKGKYLAKRL VGSRTLVDVPHIKVMESMKYPFRQGMVLDVDSQVSRTRNAV DTVIGRLRLIYEDGSDDDDFCHWNSPLIHPVGNISRVYGHGIK

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6294	354	1814	MSERRSDMAHHPTFRKIYCDVAVPYLKKVAVVTEGGVFEBCMK LEAIDPLNLGNICVATVCKVLLDGYLMCVDDGSPDGLDWFY HASSHAIFPATFCQKNDIELTTPKGYEATFPNWNYLEKTSKA APSRLEMDCPNNGPKVGMKLEAVDLNRPRLICVATVKKVVHRL LSIHPQWDSEYDQWDCESDPIYVGVCELTGYQLQPFVAEAP ATPLKAEATKKKKKQPKKKRKIPPTKTRFLRQGSCKPLLED PQARKISSEVPVGEIIVAVRVKESHLVDASPEKASPELVSVSE NIKQETDD AQLTTRGRTVAGGVNMI PPSFPDLLEYSCCLGTDRGPPFELSIHC KNVIATASDYDMAEITNIRPSFDVSPVAGLIGASVLYVCSVT VFVMSCHQQAEEKKHKNPPYKPIMLKGISITYPETLSNKKKKIIR VRROKQGPREGGRNLLVDAAEAGLLSRKOPRGPSSGSCIDQ LP IKMDYGEELRSPITSLTPGESKTTSPSSPEECVMGLSFTFV DYNFPKKALVVTIQEAGHLPVMDDTQGSDDPKYKMTLPDKRER VKTRVLRLTLDPVDEETPTFYGIPYSLQDLVHLFVLSRPSDRFS RDDVIGEVNVPVLAGVDPSGKVQLTRDIIKRNIOKCSIRGELQV SLSYQFVAQRMVTVVLKARHLQKMDIAGLSGNPVKVNMYVYGRK LAKKKTHVKKCTLNPINPESFYDIITDLLDPDISIEFLVIDFD RTTKNEVVGRLILGASVSTASGAENRVRBESPKFVAKHSL EY
6295	2795	617	VSSALLGATSGSDRAKSGASASPISTCNVAMDRDPGEPFAK TRELSSESSEQRDPFPFPFPPLRLPLPFPQAPLQETBSAA QVLADMGRVGLGALPFPFPVYILESGOIRAYFTLGACRFGWDS TIESGYGEAPPPTESLEALPTFEASGSLIEDPQVQSSSPQCE GALETCSAVGWAPQRLVDPKSEBAIIIVDEDEDERESMSR RRRRRRRRKQKRVKRESRERNAERMSIIGALEIDQLDLAVNI KAGKAPLRKRPQMRPFLEREDIIQHIGPFWKAPLHNR ISILINRDEDIPRYLTNLQVLDLRHISMGYKMLVPTNPYPT NMVIVKBPQRNRSGLVSHSTPIRWHRGQFQARHGNQDASHS QFMSKRSNHSLEADRIABIIKNDLVNFEPLYLRERGSRIKRRK CBMKKRTKRGCEVIMEDADPYAVVEDIFSEISDIDETIHDIK ISDPMETITFTYDNEBTDINENICDSENFDPNNEVPNNETDN NESADDPHTDNEBADDNEBPDNNEBNDNENNNENNTY GNFPKQFWGSHGNQDSBDSNVEDADCECNDNNGDNGDNG SDDNGDNGDNGDSDDDDIETVEYKVIDPDKQADVEDYI SDSEVBEBOIEEGIQDEDIYSEBNVEEESSEDVWEIGEDSDS DLEDVLQVKNGWANPQKRGKTG
6296	727	1199	RHCQDCAQACDSLPPTGTSFVPIAKNAIFEARCVMLLEOTTV EAVRPARKRLARKLRQKRMQPSRDSAYSNNKSTCLTTERDT LGTSLQFPSPFSGTISGFSFSDGIFPLGSCQCLGQQFQPSISGK KXALIHKKVLSVFGKARWRIYFGK QRAAASPSSCPGRAEYGAIMAKVAYKPRFALLGSAALLVGLFS VIFALVWVLYHKGGLGNDGSALEPNHVPVMTGVFVFIGIAIE VIRLPWTWKCKLLMKSTHAGLNVAVALAIISVAVFENNHN NLANMYSLSHMGVGLTAVICYILQLSGFSFLLPWAPLSLRAPL MFIRVYSGLVIFGVIALANGTEKLFSLRDPAYSTFPPEGV FNTILGLLVGLFALFVIVTRPQWRKPEPNSTIILHFGDTEQ CARGSMAYSNNNNKSDSLNVAARKNVALDEAGGQSTH SVPLRLRLSGLTQAGATTTKAVARLVAARVVCESNGWNAV PPGPHRGLSVLLARIPQAPRNLPAKORISLSLWNPDLNLA YKKGKGSPIIIFPGYLSYNNKTKALAEFEKSLGACACTRD YSGVSGSDGNSBESTLKGKRWDLVSIIDDLAQPTILVGSLOG WMLHAAIARPEKVVALIGVATAADTLVTKFNQLEVELKKEVEM KGVNSMPKSYSEGVNVQYFKEAEHICLLHSPIEVNCFIRL LHOMKDDIVPWRHSMQVADRVLSTDVDVILKHSCHSHEMKADI QLLVYTTIDDLIDKLSTVN
6297	1	922	
6298	3	985	

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6299	512	614	ECDELGIMPNVTISLSLEPTNGSPILQIILVPCVTSLSAITS SIDAMDDSAFSGPYKFFPTPLPESFNLCFTYSQVVPPILOFYQ NKEEEVQLRNHH
6300	121	692	AAFSCHSGRGVFAAGTFSSFRLLVSRNAAPSGFWCAWRQGA AQSPFSIPNSSVFGQSDSVHSSPEDGGQDRDPVGGSPGGPR LVIGSLPAHLSFPHMGGKCPVCSKFVSDEMDLHLVMCLTKPR ITYNEDVLSIDAGECAICLEELQGGDTIARLPCLCIYHKGIDE NFEVNRSCPHEFSD
6301	616	284	GKFFVVMWFPGQLPFPKYLRCYRCLLETSLGCLLGSIDICLTP AGSSCTLHKKSSGSDVMWSDCRSKSQMSDCSNTRTSFVSGFW IFSGCYCLDPCNDPKNQLYTF
6302	490	745	IFGFLHLPHNHSFLVLCALPARVFSSSCSVVALSHSDFCLLS PVLLNCLPDLRLDLHLAQKLYKATSEELDHALNDWTSL
6303	2	1961	YNNYGGCLLWQSGQEHHPGQALSSSEPRFPPTKEENHPTSQL YNNYLQEQVWEAQWTFDASQSCDTDTYTSKTEADKKDECKM KVDLWSFLSSPIMGENDNDSSGTSKXDSIILDGISNIKLSEVVT QSQLDSCTSKDHQQLSEVSKRECPASQSEPRNCGTKEEONS SGNTINTDPAEDSQKSSGANTSKDRPHASGTDGDESEEDPPEKH PSKLKRSHELDIDENPASDFDSSGILLGFKYGGGQYKGIINFS HRQVYLRNVLKSKYLDMMRRQIKMKNKHIFTFKESEKPFKK SKILSKVKKFLTHVNNKPMDEASQSSSHDHGHASTSCDSEEQ DMSVKGQDLDLENNPEPEKQSVSSAGLESTENYERDILLATV FDEQDCTVQEVFSDRQABTEAEVKKKKKKKKYNGVLPPIIAA VRELAKYKAYRLSPFEDDGKLDGQSGVSPPEKIAHIAIAR VSGSPKCDVVVDAFCVGGNTIQFALGTMRVTAIDIPKIALA RNNARVYGIADKIEFICGDFLLASLFGKADVVFLSPWGGDYA TAETFDIRIMMSPDGFEIFRLSKKITTNNIVFLPNADIDQVAS LAGPGGQVEIEQNFNNKLKITTATYFGDLIRRPASET
6304	1	1438	HRARVDRSRESFGGDLRHPORVRRTITLSGHPELSTQVLLRL DEVGDPGTLDLGHPOHSGPIQETQSRVVTIVSLPLGSDNALPA WRATSGLTLPHTAERGDLGAENRALTGQQAEDPTLASGAYQ WPGSEVKLQGVWCDATLILSSRTGGQAAPWLTLDHVMQLRL AQGEVVDKARVPAHQVLQGVFS TEAALQDLSSPRLSQCSQQL COLLKRPGDLPELSPHVRVLOGLRSLPAVARVHSPFLLPYRY TUGQARVFWADPVQHLSDPEDGQSLALMQLQVALLASGCF WPGQAPCPGTHHTENARLALFDLQLVDRDLRQVCCGTFPEFSD PCVERLERLRCRNPABRLVHLVRSDDSHLAVTDKNCNLRPS EDKLNRLLEGIDGFPESA VKVLASGCLQNMLLSKLQMDQVFW SQGAGQLQLVQLTLEQRGVLLGRIGYKNNLTFRDESDP
6305	99	420	NNIMWGSTYTRPRRSVFFPELIGFHLPEDEEFQGEFPPTES RDPAPGQEREEDGAAETQVPLEADLQELSSQKTGDCDCGDFD VQGKILTSQSPRMPEGR
6306	1	1874	PTRPSPKVKVPHPTLHSTYTRTPVQACKLKLXGLPRQGLQKDC KFNCHRCATRVPNDCLEALINGDPMEETDPSADKSLAMD ESDSDGVIPGSHSENATHASRRREGGGAQSSLCYIPLMRVVQ SVRHTTRESSTTLREGWVHYSKDYLTKRHYRRLDCKCITLQ NNVTRVYKTEIPSELITVSSAQNSLVPFGTNPCHCFEIVTANA TYVQBNPKCTTCGPGGQGAARGWETATIQAMVPTLDQAPS APGHPAPHQASLSISVNSQIQEWYDZATVCTIFEDVLGSGCF GVYVGGHKIRKRGVDVAVKVIDKLRPTTKQESQLRKEVATLSLR HPGIVNLCMPETPEKVFVWVKELHGLMGLMLLSSEKRLPRIL TKFLITQILVALRHIMFKNIHVHCLKPEVILASADFPQVKLC DFGFARIGESFRRSVCTPAYLAPEVLLNQYRSLDMHVSQ VIMVYLSGTFPFNREDEDINDQIQNAAFMYPASPHSEISAGID LNNLLQVMKRYSDVLSHFWLQYQVTHLDLRLSGKMGIR YITHESDARWQFAARHPLPSGSLPTDRDLGACPFQDHMQG

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			LAERTSVL
5307	2136	589	CEFLPRGRDPEPPEAGAAAPCARGAPDMSPRKVVRCSEFHVFG QPVKNDQCYEDIRSVRTVMDSPYCAVNFPLAVIVEASGGGAFI VLPLSKTGRIDKAYPTVCGHTGPVLIDMCPHNDEVLASGGEDC TWMVQIPENGILTSPLTEPVVLEGGITKRGVIAMHPTARNVLL SAGCDNVVLIWVGTAABELYRLDSLHPDLIYNVSMNENGSLFCS ACKDKSVRIIDPRGRTLVAERFKAHGEGARPNAIFLADGKVFTT GFSMSEQLALANDPENLEEPALQELDSSNGALLFFYPDPDTSV VIVCGKGDSSIRIYFETPEEPYPIHLNFTFSKEFPQMGSMKPR GLEVSKEIARFYKLEHKKCKEIVYTPPKSLDFQDLVPDTAG PEALAEAEWVSGHDADILISLRBAVYPSQRELEKTSRVNLS DSRPAMAPGSSHLGAPASTTTTADATPSGSLARAGEACKLETV QELRALRALVKQGDRIICREELQGMENGDA
6308	2	1118	GRPTFRFKMLLSVLHTYSNRYLLPSVVLGTAPTYYLVLANGVNR LLSAFLPARFYQALDRLYCVQSVLVFFENYTVGVQVILLGYDL PKNENIILYLANHQTVDWIVADILARQNALGHVRVYVLEKGLK WLPYGHYFAHGGIYVKSARKFNKKMRKLSQYVDAGTEMYL VTFPEQTRYNPEQTKVLSASQAPAAQGLAVLKHVILTPRIKATH VAFDCMKNVLDAYVDTVVYBGKDDGGQRESPTMTFELCKECP KIHIIIDRIDKKDVPBEGEHRMKRHLHERFEIKDMLIEFPESPD PERKKFPKSVSKLSIKTLPSMLLSGGTAGMLMTDAGARKL YTNWIVYGLTLCCLAVTIA
6309	220	563	LVAEVKFPCSLPHLSVDMENKENGSGVGNRFRNGRFPDPADNA VMQVNVYFRIVGPEEQASAPQEQDIDGKSLMLMTENVLTGLQL KLGFAIKIYETHVKPLQTKHLKNGSS
6310	36	979	QPRCWKPIILSSVNCETLRIGKANPQSSQCEYVTPRTHSSASE AQRGSLAEINVAAGLMADCDQLYDCPMGLICTNYVHLLQEHV DLHLEENSFQCGMDRVQCSGDLQAHLQOEBEDRRRSSESRQE IESPQKLQRQYGLDNGSGYKQQLRNMIEVNRGMPPSEPHRR KADMMESLALGFDGDKTKTSGIIEALHRYQNAATVRRVWSS VVDHFHSSLAGDKWGCYGRNFMQLSSLLQNDAYNDCLKMLIP CIEFKQSMIEDAWKGGFDPOGASQLIRIQSTRAMTACGEVYIL TSLIARV
6311	1	675	PVWNISCEBFRLLAAARKTHGVGRARLALGSEFVKAAVMTL ASLKRDDGLQKSRATNADSDTRRVSVDKLLIVEASLRNLL PCTCKVHPDPNKLHCQFLVTPDDEGYQSGKQPFETVPDAIN MYPKPKVKLTIKIMHNTITETGICILSLREHSIDGTGNAPRTLL KDVVWGLNLSLFDLLNFDPLNTEAAEHILADKEDPRNKVDYI KRYAR
6312	213	1400	GDGLVKREAGMKMLPGVGVEGTSSARVLVYLLRAEGFTFVBAIW GKTEERAKQLAREMNFYFTSRDITLLHQVDVLCISIPPEFLT RQISVKALGIGKNVCEKAATSDVAFIMVTASRYYPQLMSLVGN VLRFLPAPFVRMKQLISEHYVAVMVICDARIYSGSLSPSYGNIC DELMGGGGLHTMGTYIVDILLTHLGGRAEKVHGLKTFVRQNA IRGIRHVTSDDFCFQMLMGGGVCSVTILNFMFGAFVHRVMVW GSAGRLVARGADLYQKNSATGSELLRSLAVAGACLPEGGQPD VPLLKRWVYVQALQSGQCGDHFRTFRTFVSNASFEGL YMQSVUADAIKRSSGGEWAVVLTETEPNGLCEALQANL
6313	2	2071	QRSGAARTAFSPSPSACVHSEPLSEHGCNFFVVFVLEGLV PHRRNARGCTLSGSSFVQPTAMEASETVECLQEPPEHHKMLID RINEQREQDRDFTDITLVDGHHFKAHKAVALACSKFFYKFORQY TOEPLVEIRGVSKMAFRHLIEFTYAKIMTQGESEANDVWKAEE FLQMLEATKALEVRNKENSAPLENTTIGKNAKKKIAETSNVI TBSLPSASESEPVEIRVEIARGTTEVEDGEIETLEVEASAKQSVK YQTSQSSDLSALALADITSKYRGDRKKGIKEGCPSPDPTSK QVGRGIEVKLQLSHVKDLFCEKCNRSFKLPHYFKCHMKSHSTE

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6314	2	2071	SFKCEICNRYLRBSAWKHLNCHLEBGGVSKKQRTGKIHVC OYCEKQFDHPGHFKHLRKHGTGKPFCEPCNCHERFARNSTLKCH LIACQTGVGAKKGRKKLYEQVCNVSFVNSWDQFKDLVHTGDK PNCCTLCDLFWQGNELRRHLSADHNI SERLVTEEVL SVETRVO TEPPTSMTIIEQGVKVVLPDQVQVDSAGQVTEVQVHFLLQDS QVHDSHMSLPEQVQVSVLEVGRITQTEEGTEVHVLELVERVNO MPVEVQTELEADLDHVTPEIMNCEERESSQADAARAREDHED AEDLETKPTVDSAEAKAENEDRTALPVLE
6315	1	1015	QRSGAARLAF LPSFPSPACVRSRTLSFGGCTFYFVVFMPDLVL FHRRAHQCTLSGSSPVEQPTMGAKEIMELQSFPFHIMILD RLNEQREQDRDITITLIVDGHFFKAHKAVALAACSKFYKFFQEP TQEPVLEIGVSKMAFRLIBFTYTAKLMIQGEESANDVWKAKE FLQMLEAKALEVRNKENSAPLENTTGNKAKKRIKIAETSNVI TESLPSASEPVEI EIEIAEGTI EVEDGIEITLSEVASKQSVK YIQSTGSSDDALALLADITSKYQODRKGQIKEDGCESDPTSK QVEGIRI VELQLSHVKDLPHCEKCNKSPKLFYFHKHMKSHSTE SFKCEICNRYLRBSAWKHLNCHLEBGGVSKKQRTGKIHVC OYCEKQFDHPGHFKHLRKHGTGKPFCEPCNCHERFARNSTLKCH LIACQTGVGAKKGRKKLYEQVCNVSFVNSWDQFKDLVHTGDK PNCCTLCDLFWQGNELRRHLSADHNI SERLVTEEVL SVETRVO TEPPTSMTIIEQGVKVVLPDQVQVDSAGQVTEVQVHFLLQDS QVHDSHMSLPEQVQVSVLEVGRITQTEEGTEVHVLELVERVNO MPVEVQTELEADLDHVTPEIMNCEERESSQADAARAREDHED AEDLETKPTVDSAEAKAENEDRTALPVLE
6316	1503	792	IGLAVNVVITLVLISYCPATREAPTYTLLCLQLFIYQSLDA IDOKQARRTNS CSPILGDFPHGSCSLSTVFVAVGASIAARLGT PDWFFSCSFIOMFVYCAHWQTVVSGMLRFGKVDVTEIQLALVI VFVLSPFGQATNMWYTIPILEIKLILPVLGFGGVIFSCSNFY HVILHGGVGGNGSTIAGTVSLSPGLHIGLLIILAIMYKKSATD VFEHGPCLYILMFGCVFAKVQKLVVAREMKSELYQDVTFLG GLLEFLQYFNFIDEYVVLWAMVNISSFDWIVYFALCLQISRH LILNLIKIACHGAPFGVQLSSKSHGNMG
6317	102	839	VSAKATGIMQGTTSKRYFEDENHETTVVGRILRSENVIDR MKSSPSGSGSYQRYGAGVAGSVSDENHETTVVGRILRSENVIDR EDQKRLQAYLEDRERAAVQGLTRALIRERI CSDEERAKAHL AROLEBKDRVLKQDAFYKEQARLEERSSEFYRVTTQYQKAA ERVRKAFKRYSEHFPVCDLQAKILQCYRENTHTLCKSALATQY MHCVNHAQSMLEKGG
6318	1765	733	PIKATTSAVLAREKHLPTKHEAPCMMAAGDARYQKQSDQDN PDYMFKLLIIGNSSVGKTSFLRYADDSPTSAFVSTVGIDPKVK TYPKNEKKRIKIQWDTAGQERYTITTATYRGAMGFILMYDITN RESFNVAQDMSQTIKTYSDNAQVILVGNCKMDERDERTER QHLQGLQGFPEFFTSAKDNINVKQTFERLVDIIDCKMSSELETD PAITRAKONTRLKXTPPPPOPNAC
6319	88	717	FNHPLRTLP LHHDPKPPRARGREAGDSYHLPGLLELRREAPPL LGPLLSFPPLPAGSWHQRMLRSSLPFITNSAGAPCKAAGRMHI LAIVRRDRVLAEPLPCLRKBAALHGHGDRHPKRYCACQSHRTGT VQFKISKVIVQGLSVKRTCLNRRKQDTPKQKATIGVDFPM KRFVFLGIPESLQMDTQGERFKCIASITYRAGCALIIVFNLI DVASLEHTQMLADALKENDPSSVLLPVGSKXDLSTPAQVNLN EKDALQVQAKMAEYNAVSSLTGENVREFFPRVALTTPFANVLA KLEKSGAKRIGDVRINSSDNLNLTASIKKPTCCP

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6320	90	1111	TLRLTVESESHQWLLRQTSHEEKPVRDGSAPFC RPRTRGKRVAAAVDSPTLLYREIARSNCNCEALALVGAWYTA RKSITVICDFYSLIRLHPFIRIGSRADLIQXGRWAVVSGATDG IGKAYAEELASRGLNIIILIRNEEKQVVAIDIAITYKVEDII VADPSSGREIYLPFIREALKRDKDVGILVNVGVFPYQYFTQLS EDKLMDLINVHMAASLHWVVLPGMVERKKAIVITSSGSCCK PTPOLAASASAKTLOHFSRAQITSAKQIFVQSIIPFVIVATS NTAPSNFLRRCSHLVPSPKYVAHVAVSTLGISKRTIGVWSHSIQ FLFAQYMPENLWVWGANILNARSLKALACTA
6321	1418	341	HRKALQALNAGRLGKALAAVSLSLAEVIRSSRCRGTAQF RNSPSSSHPLNITNVMSGSGSKENSHKARTSPYPGSKVERSO VNEKGVWLVEMQDYKPVBYTAVSLAGRWADPQISENFSFK PNEKGDHVERKSKNGLYEENGPRPNPAGRTGLVGRLLGRWGP NHAADPIITRNKRDSSGNKIMHPVSGKHILQFVAIKRDKCGEWA IPGGMVDPGKISATLKRFGEEALNSLCKTSATKREIREKLHK LFSQDHLVYKGYDDPRNTDAMMETBAVNVHDETSGINDNLM LEAGDDAGKVGKVDINDKLKLYASHSQPIKLVAEKRDHNSDS EADCHAL
6322	2047	1083	NQELILNVESSRTVQPHLEFLSLGWSVDVGRHFGWTHGVST SHIDCDGSGSQCEVISEDIGASIFPMQKKLYYADALTEI APYVSPVPSLSDLSHNSIDGSDSNFNDMLKQSLTLLEL FNNMTDNLSSORLSPSSMRKLPQGRFVPLGPETRVSVVVE RYDDIENFPLSELATEISTGVTTANSTSLSTLTLKEVVPVIF IHLPLNTGLFRIKIQGATKPMVPIPLVGVNIVSRALGLVQVQT VINICRRKLESDSYSPPHVRKQKJITDINVKNQKLEFPFYT SLFQEVGLKNGCS
6323	1	656	PASTDGAQEARVLDDGAFTIPRFPAGSPGCFACVSKXPALQA PAAPAFEPSPASPMAPTLPFMSKSSKTSVRAGAPACAKHLA EKKMTNPTTVIEVYDPTTEVNDYLYNSIFNVYLMFCGLGIA LAYSLEKVRDEKLINDINGAVEDAKTDLNITRSLGLAASCMIML MALSIVIAITHRGLRSSASILVAEPHNDNTRPQVT7REERCPAL
6324	1	2061	EGAGMRRCPCRGSLNEAAGALFPAJANGLSEAFGRGRRQFGQ RPGGAGAGACRPRGCGIWARTEGSSLSIEPFRAGLGPAPGTES PQAEFTWDGTEPAANGLGVSTPRKQTEPDRSLRTHLENSW SELOFTCLNTEPTGIDGATDPRSDIQPQREASPTQFQVHGP WTELET7HSGTQPRVKSWMALWTHQVSSSIQTHEEACFSE PSADGSKWELVTDGSRTCQDIKGPWTEPYHSGSKQQTAAARK QPGVGGFQIQQDSDGSWTQPSDGSQTAPTDCLLGPEDGPLE EPEPGCELLTHLYSLKCSPLCFVRLIITPTEPEPAQVPGPFS RVGSGSGGFSASSPDSDEDDVAGGGGASDPEDRSQSKPWKL KTVLYKSPFVVSFRKHYPWVQLSGHAGNFJAGEDGRILKRFQCC EQRSLEQLMKDPLRPFVYQVNLQDQITPNQKEDLLADFEFG SIMDCKMGRSTVLEELVKAREPRPRKDVYKVKVADVPAGPTE EHAQAVTKPRYMQWRMTMSSTSLGFRIRIGIKADGTCTNIN KKTQALQVTKVLESDVKGHHVILQKYVACLEELBEALEISFPF KTHVGVSSSLLFVHDETHGLAKVMDIPGKIVALPDHQTLSHRLP WAGNEEDQYLVGLDNMILCLLQQLAQSS
6325	165	944	GLQDFPRKREIKQVRAENVYNGWFGSPQEKDPSPTSRSGGS SLRSGSRSSRSRSPSSRSRVSRRSRGRRRSKSRSSRRRHG RKRYRYSRSRYSRSGSRSSRRYRERRYQFIRYRSRPSRYS RSRSGRSRGRSYCGRAYALRQORYGYGORTTYFEDISGRDRES TRSRRTFPRLSEKDMELIETAKNAKALGTNTNIDLPASLRT VPSAKRTSRGIGVSGNGAKFEVSLISEGNFCNKCQI
6326	238	680	GEPSPATQKPSATGAGVILHQHFGSGHLYVNLHLLFPPTTISFT VOTTLQPPGGLPAAPVSGRNAFPVGRDLARRMVPFRAGKTOTL GARRVAAQGARLFEDRRPKSGERLEIVTAPCWEFVLPVSLSLA

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6327	1	1337	QAMGGVQGEASSGVP SLARLAPAGGSSVMPPTQPPAAPSTRAPKPSRSLSGSLNLFSDA DSGSGNKAEPLPPGPAVGRMTKREKIQJRKEKQKKRKRKEK GARPETGSAVSAQAQGGPTRELPSGGIQLGTPREKVPAGRSKAE LRAERAKQBAERALKQARKGEGQGPFPKASPTAGETPSGVKR LPEYVQDDLLRLVKPRERQGPVTRKDYGSKVSFLSHLPQYS RQNSLTQWISLPSVHPANVRLGLCYSGSLVGRSGTACIALLR ALQGVTDYDTPPNEELSRDLVYKLPFTMSVLQKCPFSASWEN AIKFLNKRTSVGSSKREBEAKSLRAA-DRYVQEKVLAQAQI SRFAYQKISNGDILVYGCSSLSRILQEAETGRRFRVWVDS RPWLEGRHTRLRLVHAGVPASTLLIPAPASYVLEPVSTEKKDSKV GGSKV
6328	1030	276	HASAEVTTAAARLGAMEEMHTDAKTRANQTOSSPRGGCSL RHFACQNLLSRFDGSAFLQGDTSVLAVGPAEVKVSKEIFN KATLEVILRPKIGLPGVAEKSRERILIRNTCEAVVLGLTHPRTSI TVVLQVSDAGSLIACCLNACMAVDAGVPMRALFCGVACALD SDGTLVLDFTSKQREKRAVILTFALDSVERKLLMSSTKGLYSBT ELQQCLAAQAASQHVFRFYRESLQRRYSKS
6329	3	2016	SSEVAAGGGRSARAAGGSGEVVTSATGAAGLNNAGGTSATS SPELSRKHLLLETRLDNDKEMLSAKALSTFPVNSLRTRRN RQDLERSLAINBFRVSLFKEVLEBELSISDVGMSNCQDMT SRLOARKEQTDOLIVKTKLQESRQKLEIRAGVDALSLSGFCT SDMSLLRGTREGPTEDFPKALGRVKQIHNQVLLRLTQQCTA GLEINQMALLQETAYERLYRMAQSECRTLQSSCDVSPVLQQA NEALQDRPVLKYTLDEFGTARRSTVVRGFIDALTRGGPGGTPR PIEMHSHDPLRYVQDMLAWLHQATASEKEHLEALLKHVTQGVSE ENIQGVVGHITGVCRPLKVRIEQVIARPAVLLYKISNLLKF YHHTISGIVGNSATALLTTEBMLLSKKIFFNSLSLHASKIML KVELPPDLPSSALRQITMLREVLASHDSSVPLDARQADPV QVLSVLDPLQMCVTSASINLOTADMTFVNSLYMMKTLALF EFTDRLEMLQFIEAHLQTLINBOASYVITRVGLSYTYNTVCQ HKPEQGSIAHNPDLDSVTLKAAVQPDRELSAPDNLIPQNLFL LSNVVRQIVKQSTELVCRAVEYVYANVMPINEDYKDPENILR SPQQGTQLLS
6330	1151	333	PFYTFYENTPSRRMVASKETLSINKNCFORFKPTTYLLAQPL PVHQPHSLVSEGTVKAMMNCNVVRGPAAGAPKERPTKPTAFR KFYERGDFFIALHSDSGKNKIAMVSEIEKDYHRYLPLFPDGLC EMTFPYEFFARQGIHMLHEGKNKILPVLQPLIPIKMAINLRN RQVICVTLVLQHLVSAEMVKAALVPYTRQLPLVNLIFKNMNV NSGDIDYSQQKRENIQDLQETLEAFERYGGENAFINIKYVVP TYESCLLN
6331	3	495	QQGQVRTRGRACASATPLEGCVLSPYRTHAALLKVAQMTL LIAFICVRSSLLNTNYSAYSVFEVVTICOLINLAFVLVHLFRFY RVLCISWPLSELHLYLTGLLILLASTVAASKSYNQSGLVAGA IRGPMATFLQMAWISYKISCVTQSTDAV
6332	1	878	VTESNKFVLSFIDLLRRLYSNNQVQAQPIISWILVLESFVDI NLLDYLPEILDGLFQTLGDNKEIRKMCCEVVLGEPLKBIKKNS SPKFAEMNTLVHICQPTDGLIQLTAMCWEFFIQAGRVMLPY SSGLIAVPLCLATDREKRSIRIVANQNSSTETEDLLE EERPGORQAFPTPDALPKQGTASQGWTFPSLMLTSGKGPRPDP VIGVALHGHISNQVPMYVHTHTVAATQSGSGSGPPFCRQDTQ KLSTMATISQLVKTGTGLEPQAVSSSI
6333	3	1467	TRTPSRAAGGSGPSCVSAHSWDTAKGPPVSLLAFLTPRSAG QPLTFSPSGRPLRLSVLGMCSGGRRKSSLSPTMRFGTGAERG GLMNGHPGMHYAPGMHMGQRANMPVPHGMEQMEFNGGFP MGQMPGNMSSVMPGMMSHNSQASMQPALPFGVNSMDVAAGTAS

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			GAKSMTEHKSPDGTYYNYNTKQSTKTKRPPDLKTPAEQLLSK CPWKEYKSDSGKPYVYNSQTKESNAKFELEDGQVNTIVAG SLITKSNLHAMIKAEESQKQECTTTSTAPVPVTEIPTMTGMA AAEAAAVVAAAAAANAANASTASNTVSGTVPVVPEP EVTISIVTVVNTVTITSTEKQALSTPAIQDQSVESNTG EETSKQETVADPTPKKBEESQPAKXTYTNTKREAKQAPKELL KEKRVPSNASWQAMKMIINDPYSALAKLSEKKQAPNAYKVQT EKK
6334	17	644	GGNSGGRAGFAAAAMPSSPLRVAVVCSNRQRSEARHLLSKR GFSVSGFTGTHVKLGSPADKFNVDKPTTYDQMHDLLEKDK ELVYQNGHILHMLDRNKIKFRPERFONCKDLPFLTLKSRVD QVDELDNSREOSTCPVHVNVNDIQNSKEATLGAFLICELCQC IQHTEMDENRDELQCFEEKSGRTTTLHVCFY
6335	82	529	AARAFVGLCRLGALGQDSRVMSYIPGQPTVAVVGVETI KLKRGENLLGFSIOGGDIQDPSQNPSEDKTDKGIYVTVRSBG GFAEITAGLQIGDKIMQVNGWMDMTVTHDQAKRLTKRSEEVRL LVTRSLQKAVQSQMSLS
6336	1003	438	HEPASKGRAEVGNMRLSVAALSHGRVPRRNGQSPESRIHLRLN LLTGLVHRHERTEAPWARVDENRGYAEKLIDYKGLGDTERAMRM ADFWLTKDLIKFLKQVLAIPRYQDQGTGGVTRMLQIPNRSLODRK MAVITEKGNCLPPLPLPRDRSHLTLLMQLLQGLRQDLROSEAS NHSSTPAETGI
6337	76	524	EGTQMLSVQETPKPKCKGCKTKIKDLYLLALKDXYWHEDCKC ACCDCKLGEVGSGLTYKANLILCRDYLRLGVTGNCAACSKLI PAFENVRKAKINNVHLDCPAQLCINQRFVGDGKFLKNMMLTQ TDYEEGLMKEGYAPQVR
6338	66	1349	APNSGGTQGLPTPANLPTNRANDPPTTMSATDRNGKAVP GLRLALLLLGLGTPKSGVQGBGLDFFPYDGVDRVINYNAGY KNVFKYEVILLALHYEPEDDKASQRFEMEELILEAAQVLED KGVGFLGVDSKDAVAKKLTGVDSMYVFKGDEVIEYDGFPS ADTIVEFLDLVLEDVPELIGERLEQAFENIEDEIKLIGYFKPK DSEHYKAFEDAASREHPYIPFPATFDSKGAKKLKLKLEIDFYE AFMRBPVTIPDKPNSEREIVNFVEHRSRTRLRLLKPSMSYETWE DMMDGHTVAPARAQPDGPEPELTKAVAGQNTENVDSEIINI DPDDEPLLIVYWEKTDIDLAGPOLGVTVVTDRLMMDDBSE DLPSARELKNLSDVLGGIINTDODDDDD
6339	246	1813	NKCDRGGGGQAEKQAGGCR*QNGNPFQFGHFFSGQAKMAFH TFCVLLVFGSVSRAXFLDFDKDEDIVSYLNDQFAEFEDVMEDS VTESQPVRIITREDDKDETTVELEGQENQSGDFDADTQEGDTE SEPYDDREFEGYEDKPDTSSEKNDKPIITVDVEHLQNSWESY LEILMTGLLAIYIMNYIIGKNKNSRLAQAWNTHRELLESNPTL VGDECTNKATSTGKLNQENHIYNLWCSRGVCCRGMLIQLRPL KRQDLNLVLRMMPVSDQVQIKVTWDENDMDIYFVAVGTREKAL VLQKEMQDLSEPCSDPKSGAKYGLPDSLAILSEMGEVTDGMM DTGMVHFLTHYADKTESVHFSDDQSGFKIMOEEOPLKRLPDTFR TLGLTPRVPGSGNTYPKWRALLPLMMNYIYIDKAKKFLNKE GKQAKMRAVSEMFKLITVQREAGSGSREKREKAKERIM NEDEPKQRRLEBAALBEEKLEKQMGHQLKVM
6340	2	583	RACNHLSCPAFARIGRARRPFWHSHTSTPFAERSFHSSES SSSSTSSSASRALPAQDPMEKALGMPDSGDFGMRPHSEPLAF PARPGGAGNIKTLGDAYEFAVDVRDPSPEDIIVTTSNGLIEVSA EKLADGTYVMNNFAHKCOLPEDVDPTSV*SAKSDGSLITRAER HPHTEHVQQTFRTEIKI
6341	2	645	KMAVLSAPGLRGRITLGRSSVGPAQVARGVHGSVATDQPSSTQ PALPKARAVAPKPSRGYVVAKLDDLVMARSSLMPTFGLA CCAVEMMRMAAPRYMDRGVVFASRQSDVIVAGTLTNKMA

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6342	2	1191	<p>PAIRKVIDQMPPEPVVSMGSCANGGGYHYHSYSVVGGCDRIVP VDIYIFGCPPTAEALLYLGLQQRKIKRRRLQIWMYR</p> <p>DPRVAMRLATLARVAALRKTCLFSGRGSGGLWIGRPOSDMNNI KPLBOVKILDITVLIGAPPATNNGI/GAEVIVKVERPGAGDDTR TWGPPFVGSTYYLSVHRKKSIAVNIKDPKGVKIKLELAVC DVFFENYVPGKLSAMGLGYEDIDIAPIHIYCSITGYGGTGPIS QRAGYDVAASVSGLMHTTQPEVACLGHIAANYLIGQKEAKRWG TAHSGIVPYGAQKTKDGTIVVGAAGNQGFATVCKILDPELIDN SIVYKTHLVRVNRKELIKILSERFBEELTSKMLYLFEGSGVPYVG PINMKNVFAEPQVLHMLVMEHEPTVKGISVGPVAVYSKFK MSEARPPPLQOHTTHILKEVLRYDRAAGELLSAGTVQOHEHT</p>
6343	2	926	<p>GTARVSDKDELNLVLIVVDANITWKGKALAKESPTLSKTKDAV MVLGNSHLFMNRNSKLAVIASHIQESRFLYPGNGRLGDFP3DE GNPFPNFGSGKQGYELLTSANRVIIEHIDKMLTKSDIKGQHT ETLLAGSLAKALCIYHRMNRKVKDNQMKESRLIVIKAAEDSALO YNNITWVIFAQKQNLIDACVLSDSGILQOACDITGGYLKLV PQMFSLQLYLLVFLPDODORSOLLFPFVHVYDRAACFCHRLN I8IGYVCSVLISIFCNFSPICTCTCTAPKISLPPVLAKKKKKLK VSA</p>
6344	2508	147	<p>TMPIATLKLRLQYGMASPLGAALFSLTPQLATPNLQOPFPQATR QSLQPPPVGVPMNPSQFNLSGRNTPQKQARTSSSTTPNRDSSS QZMFVEDKSDPFECSSEARWRHTDEQDLPFCBIALKBEKT PAPEPEPCRASELPAKRLRSSEPTKEFPGQOLQVKAQOARMT VFKQCTQDPLLPALEAQLVPRFQPRVLVQCAQVQSQTOPRIPS TUTQVQPKIQKQKQCTQTSPEHLVQKQVQVQLQKQARPOKVO PCVQPOHSGGPRQVQLQCAEAPLKVQVQVQVQVQVQVQVQVQV LGQLQKQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQVQV PHQTPQVSLAPBQTPVVVVHVGLEMPDVAEAGGGMKTLPEP VQTVSMRESIQESACGLDVGCENRAREMPVWGAQGSLLKVI LQSSDSRAPSTVPLTPVFRPSDSVSSTPAATSTPSKQALQFFCY ICKACSQOQFQDMHSEFQHQRLGELIQHMSQACLLSLLPVR DVLTEDEEPFPPRWCNTQGLYTGDDIGHRTDTHKIAKOSIR PFTCTCNKIFKTRFTVBIHVKSGHEDKAGELKSLSKBAQDRE DHFTTVDVAGCFEGDEEEDDEDEEETVIEELCKVQVSDIS REEWKGSSTVSNPNTAYGVDFLVPMGVYICRCHKFYYSMSGAOL SHCKSLGHIFENLQKYAAKNPSPIRPSVRCAINARNALALP TSSCRFPSPQNTQDKTFSKVTAPSPQPLPERSLTX</p>
6345	2	3483	<p>PRVITKLILLVNDKRYRVRVGGPRLRGDVRKEMTEQOLQKV HELEKQNDTLKRLISAKQLOLTQGYQTPYNNVOSINTGRK ANENAGLQECPRKGIKQDADVATPHPMFTKYGNLSLEEARGE IRNLNVISQORQIIELEHLAILKTLQLRKNEIELSLQLLR EQQATDQRSNIRDNEMI KLEKQLVEKSHALSAMEGFIQLQEK QRTLKI SHIDALWANGDEIAMLQKEORLKCSCSLXQLHSMKPSER RISLQDEINULSRRELLKENYDKLYDSAFSAHEBQWKLKBQ OLKVOIAQLTALKSLTQKTRILDRKTERDQNEKLVQENREEL QLOYLEQKQDLKLLKIKLVQENIDANDELEALLKAKHLS QKNGDLSFLVKVDSIEINKDLERSWRELQATIAETVQLEKTRIM LIMOKHINKDYQMEVAVTRKMEINQQVYKVPQVYVHLLDRA ARIHKLEAQLKDIACTQYKQKFKPEIMPDSVDVDFDTHLESG ENLFIEHINKVTSFVSLQASGDKPVPFCTYAFYDFELQTFPV VRGLHPEYNFTSQYLHVNDLFLQYIQKNTITLVEHQAYSTYR TIAACQLKPHSILEKSRIPCTASLIGTKSDIPNFGTVYVYFRL RVPMQDAIRLYRERAKAGYITSNFKGPEIMQSLSQAPKTAQL SSTDSTOGLNELHITIRCNHLSQASHLQHPHYVYVYKTFDFA DHDTAIPSSNDPQFDHMYFPVPMNDLQYLRKSSLSFVDF DSDTQENIYIGKVVNPLLSLAHRCISGIFELTDHQHPAGTTH</p>

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			VILKNKFATLPSPGSIITTEDLGNFIRSEEPVQRLFPASSVSTLVLAAPRPKPRQLTFVDKKVSFVDIMPKSDVVSQEGSVDEKENTKMQQGGKDDVSLSSGQLAECSSASSSEDEITEDELEPEVEDMSASDSDDCIIGPISKNIKQPSKIRIETIALGLNDSQVTNDDTQQLFVCECFISLPABETPVSLPKPKSGQWVTYNSNVYVDKRWIKAKRLIKALLQKQGHFNRSRFTVSDPPEDEQLECEDIGVAVHDLAMPQSGRELLIEQNLVDVDFADADGEGIGLRVTVETALHALGSVYIKYRDDLE
6346	2921	533	QDERLLRLLELQKTCQPTSTMSGSHTPACGPFSAITPSTINPQETLAKYTKKESSAEQPEFYDDEPGFRVYKEEGDEPGSSLLANSPLME DAPQLRLNQAHLEFTHNHVDGLTWDKIADVSLPSEKRLSLVLA GIPHGMRPQLWRLSGALQKRNSELSYREIVNNSNDEITAAK QIBKDLRLTPSNACFASMSGIGVPRLSRLRALAWLYPEIGYC QGTGMVAACILLFLEEDAFWMSAIIEDLLPASVFTTLGQVQ TDQVLRHLIVQYLPRLDKLQEHDI:ELSLITLHNPLTAFASVV DIKILLRIWDLFFYEGSRVLPQLTGLMLHKEEELTQSNSSASI FNTLSDI:PSQMEDAELLGLVAMRLAGSLTDVAVETQREKHLAYL IADCGQLGAGTLTNLSQVVRRTQRRKSTITALLFGEDDLEAL KAKNIKQTELVDADLEAILRLVARHQPCTDPKNCSSVSRQLPGLL PNTALTPPTPLVLGYSLWQELTPDYSMESHQRDHENVACRSRH RRAKALLDFERHDDDELGRKNDIITTVSQDEHCWGEINLGL RGWFPKAFVFEVLDERSKEYS IAGDSDVTEGVTDLVRGTLPALK ALFEGHLKPSLGGGACHPWLFTIEEAAGREVERDPASVYSRLVL CKTFLRDEDKVLTPEELLYRAVGSVNTVDADVAHQMDVKLRSL ICVLNREQVLHMLNLEVLCSLFTVEKYQPKSFLRSPGWVQIKC ELRLVCCFAPSLSQDWELPAKREBAQQLKEGVDRMLVKGHLFSW DVG
6347	2921	533	QDERLLRLLELQKTCQPTSTMSGSHTPACGPFSAITPSTINPQETLAKYTKKESSAEQPEFYDDEPGFRVYKEEGDEPGSSLLANSPLME DAPQLRLNQAHLEFTHNHVDGLTWDKIADVSLPSEKRLSLVLA GIPHGMRPQLWRLSGALQKRNSELSYREIVNNSNDEITAAK QIBKDLRLTPSNACFASMSGIGVPRLSRLRALAWLYPEIGYC QGTGMVAACILLFLEEDAFWMSAIIEDLLPASVFTTLGQVQ TDQVLRHLIVQYLPRLDKLQEHDI:ELSLITLHNPLTAFASVV DIKILLRIWDLFFYEGSRVLPQLTGLMLHKEEELTQSNSSASI FNTLSDI:PSQMEDAELLGLVAMRLAGSLTDVAVETQREKHLAYL IADCGQLGAGTLTNLSQVVRRTQRRKSTITALLFGEDDLEAL KAKNIKQTELVDADLEAILRLVARHQPCTDPKNCSSVSRQLPGLL PNTALTPPTPLVLGYSLWQELTPDYSMESHQRDHENVACRSRH RRAKALLDFERHDDDELGRKNDIITTVSQDEHCWGEINLGL RGWFPKAFVFEVLDERSKEYS IAGDSDVTEGVTDLVRGTLPALK ALFEGHLKPSLGGGACHPWLFTIEEAAGREVERDPASVYSRLVL CKTFLRDEDKVLTPEELLYRAVGSVNTVDADVAHQMDVKLRSL ICVLNREQVLHMLNLEVLCSLFTVEKYQPKSFLRSPGWVQIKC ELRLVCCFAPSLSQDWELPAKREBAQQLKEGVDRMLVKGHLFSW DVG
6348	3	3679	AGAAKCFVTLACPLAKQNNKYKBECKOLLKREHEHLPQKEE KLARQLQQAERLQYKVLVHSQBERLTLQRLKREHREGRDSSSLN EHLQALLTPDEPKSQGDLQBLAEGCRLAGHLVQKLSPENDN DDESDVQVEVAEKVQKSSPREMQKAEKEVPEDELSACATCS NSHGPCDSNQPHNKIKITFEDEEVNSTLVVDRESSHDECOALN ILPVPGPSTSSATNVSNNVSAAGLSGKAAINILEINEKLEPOLA EKKQKFRNLKEKCFLTQLACFLANQNNKYKECKDLIKFLMRN ERQPKKEKIAELQKAEELRQYKVLVHSQBERLTLQRLKREGR DASRLNEHLQALLTPDEPKSQGDLQBLAEGCRLAGHLVQK LSPENDNDDDEDVQVEVAEKVQKSSAPREMQKAEKEVPEDESL

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6349	3	3679	<p>ECATCSNSHGPDYDSNQPHRKTITFEEDVDSITLQSSSHVKN EDAVHIIIPENESDDREEREKGPVSPRNLQSESEEVQESWDEG YSTLSIPPEMLASYKSYSTSTHSLSEEQVCMVDIGRHRNDQVK KEDHEATGPRLSRELLDEKGPVQLQSLDRCYSTPSGCLSLTDS CQPYRSAFYVLQQRVGLAVNMDIEIKYQEVVEEDQPCPRLSR ELLDEKEPVLQSLDRCYSTPSGYLELPDLGQCPYSSAVYSLEE QYGLGALDVDRIKKQREBEDQCPCLRLSRELLVEVFEVLQD SLDRCYSTPSSCLQPDSCQPYGSSFYALEEKHVGFSLDVGEIR KKGKGGKRRRRSKKERRRRRKGEEEDQNPCCPRLSRELLDEK PEVLQSLDRCYSTPSGCLSLTDSQCPYRSAFYILEQQRVGLAV NMDIEIKYQEVVEEDQPCPRLSGSLDEKEFVQLQSLDRCYST TPSGCLSLTDSQCPYRSAFYILEQQRVGLAVNMDIEIKYQEVVE EQDQPCPRLSRELLDEKEPVLQSLDRCYSTPSGYLELPDLGQ PYSSAVYSLEEQYGLGALDVDRIKKQREBEDQCPCLRLSRELL LEVVEPVLQSLDRCYSTPSSCLQPDSCQPYGSSFYALEEKH VGFSLDVGEIRKKGKGGKRRRRSKKERRRRRKGEEEDQNPCCP RLNSMLMEVEPEVLQSLDICYSTPSMYELPDSFQHRVSVFY SPEEHISFALYVDRFFTLTVTSLHLVFGMGVIFPQ</p> <p>KAEKCFVTLACFLAQQNKYKTEBECKDLKSMRLNEQLQFKE KLARQLQAEHLRQYKVLVHSGRELTLQREKLRGCRDASRSIN EHLQALLTPDEPKSQGQDLQELAGCRLAQHLVQKLSPEINDN DDDEDVQVEAVKQKSSSPREMQAEKEVPEDELSCEATCS NSHGPDYDSNQPHRKTITFEEDVDSITLQSSSHVKN EDAVHIIIPENESDDREEREKGPVSPRNLQSESEEVQESWDEG YSTLSIPPEMLASYKSYSTSTHSLSEEQVCMVDIGRHRNDQVK KEDHEATGPRLSRELLDEKGPVQLQSLDRCYSTPSGCLSLTDS CQPYRSAFYVLQQRVGLAVNMDIEIKYQEVVEEDQPCPRLSR ELLDEKEPVLQSLDRCYSTPSGYLELPDLGQCPYSSAVYSLEE QYGLGALDVDRIKKQREBEDQCPCLRLSRELLVEVFEVLQD SLDRCYSTPSSCLQPDSCQPYGSSFYALEEKHVGFSLDVGEIR KKGKGGKRRRRSKKERRRRRKGEEEDQNPCCPRLSRELLDEK PEVLQSLDRCYSTPSGCLSLTDSQCPYRSAFYILEQQRVGLAV NMDIEIKYQEVVEEDQPCPRLSGSLDEKEFVQLQSLDRCYST TPSGCLSLTDSQCPYRSAFYILEQQRVGLAVNMDIEIKYQEVVE EQDQPCPRLSRELLDEKEPVLQSLDRCYSTPSGYLELPDLGQ PYSSAVYSLEEQYGLGALDVDRIKKQREBEDQCPCLRLSRELL LEVVEPVLQSLDRCYSTPSSCLQPDSCQPYGSSFYALEEKH VGFSLDVGEIRKKGKGGKRRRRSKKERRRRRKGEEEDQNPCCP RLNSMLMEVEPEVLQSLDICYSTPSMYELPDSFQHRVSVFY SPEEHISFALYVDRFFTLTVTSLHLVFGMGVIFPQ</p>
6350	3	3679	<p>AGAKKCFVTLACFLAQQNKYKTEBECKDLKSMRLNEQLQFKE KLARQLQAEHLRQYKVLVHSGRELTLQREKLRGCRDASRSIN EHLQALLTPDEPKSQGQDLQELAGCRLAQHLVQKLSPEINDN DDDEDVQVEAVKQKSSSPREMQAEKEVPEDELSCEATCS NSHGPDYDSNQPHRKTITFEEDVDSITLQSSSHVKN EDAVHIIIPENESDDREEREKGPVSPRNLQSESEEVQESWDEG YSTLSIPPEMLASYKSYSTSTHSLSEEQVCMVDIGRHRNDQVK KEDHEATGPRLSRELLDEKGPVQLQSLDRCYSTPSGCLSLTDS CQPYRSAFYVLQQRVGLAVNMDIEIKYQEVVEEDQPCPRLSR ELLDEKEPVLQSLDRCYSTPSGYLELPDLGQCPYSSAVYSLEE QYGLGALDVDRIKKQREBEDQCPCLRLSRELLVEVFEVLQD SLDRCYSTPSSCLQPDSCQPYGSSFYALEEKHVGFSLDVGEIR KKGKGGKRRRRSKKERRRRRKGEEEDQNPCCPRLSRELLDEK PEVLQSLDRCYSTPSGCLSLTDSQCPYRSAFYILEQQRVGLAV NMDIEIKYQEVVEEDQPCPRLSGSLDEKEFVQLQSLDRCYST TPSGCLSLTDSQCPYRSAFYILEQQRVGLAVNMDIEIKYQEVVE EQDQPCPRLSRELLDEKEPVLQSLDRCYSTPSGYLELPDLGQ PYSSAVYSLEEQYGLGALDVDRIKKQREBEDQCPCLRLSRELL LEVVEPVLQSLDRCYSTPSSCLQPDSCQPYGSSFYALEEKH VGFSLDVGEIRKKGKGGKRRRRSKKERRRRRKGEEEDQNPCCP RLNSMLMEVEPEVLQSLDICYSTPSMYELPDSFQHRVSVFY SPEEHISFALYVDRFFTLTVTSLHLVFGMGVIFPQ</p>

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6357	2	915	GLLENMALLVRLNQTSTISQWVFVCSRLIPVSPFGQGERALS RTSQNPQMSQSACGGSEQIPGIDQLNKRCHITTRKLSSTKDSF QPVEEKVGAFKILBAMGFTGPLKYSKWKIKIALRMYSCTVEK TDFFEFLLRCQMPDTFNSWFLITLLHVMKCLVRMKQGRSGKYN CRILVHFMWEDVQQRGRVMGVNPIYLLKNNMLMTNHFYAAILGY DEGILSDDHGLAALWRTFFNRKCEDPHLELLVYVRKQIYQL DSMNGEDLLLTGEVSRWPLVKNPQSLIKHISPTYNDEGL
6358	2009	1040	ASDALHSLSAFVRLSSSKSAARPAWTTEQATSFADKFLAGLGA AISKTAAPATERVLLQVGHASKQIADKQKGIIVDCVRIPE SGVGLFVPRCHLNVRITFPFOALNFAFKYKQILFQGVDSIT QPNKYFAGNLASOGAAGATSCILCFVPLDFAITLADYVKSSTB REFRGLGDCLVKITKSDGIRGLVQGSVSQVQIIYRAAYFQVY DTAKMGLDPDKTHIVVSMIAQTIVAVGVVYSPFDTVRRRM MQSGRKGADIMYTGTVDCNRKIIFDRGKAFKFGANSNLRZMG GAFVLVLYDELKKVI
6359	98	1086	VCRQEEKMKEDCLPSSHVPTSDSKSIQKSELLGLLTLTYNCH KSKFOLHREBGLTIEGLLNIANGLRRIQLQMDREQVHH PSTWMPRPSPCLKEPSPQNKNTAQGPSIQPVHKAESSTDS GELEAREAPQLMRTKSDASQQRORPKCARQGAORIRRHRS INGHFDHKTISVFTAYGVSIVNRVNSTMTLQVLITLLNKFVR EDGSEFALIVHSGSEKTKLKCKYPLISRLHGPCBKRIARIF LMEADGVGVTHVEVAYIKFHPVLDSPVEHLKEBEREIIKLT MKFQALRLTMLQLBQLVEAK
6360	1	345	GTGQAVPTLLEVVLEPRSCRVPWHISGTTMSKVSFKITLTSDF RLFYKLVSVFESTPTFAVLKFAAREFKVPAATISALITNDGIGN PAQTAGNVFLKHGSELRIIPDRVSGC
6361	615	158	RFLGGLQHCLAPQAGNRRCRPHGRLEALTRHSGKPMPIQ FKDITLNTLEDSSPVAVLGAPIAVASTLSVENNDGVETGINAC APGRMRQITSQEFCIPIQGRCTFTFPDDGETLIHQAGDALMLPA NSTGINDIQETVRKTYVLIL
6362	350	1576	TTMDGSHSAALKQLQPLPTSSSSAVSEASFSYKEMILGALLAF GHLVVSIALNLQKYCHIRLAGSKDPRAYFKTKWMLGLMLLIG RLGVFASVAFAPSLIVPLSAVSIVASAIIGITFIKKKKPKDF LARYVLSFVQGLAVGTLLVTPAPISHERMPOBNTHHLSVN PELLMYLVEITLPCLLLYPKKXNNMTVILLVALLGSESTV TVKAGVGLVLSIQGNQLDYEIFYFMEVCWVATAVQAFLSQ ASQMYDSSLDSVGYLSTTIAITAGAFIPLDPIGEDVILHICF ALGCLIAFLGVFLITRNKKPIPEPFIYIAMDAPGMQNGHDKGM TVOPELKASFSYGALENNDISRIATPATLPMVQEESSGSSASG VPYKLEHTKKK
6363	21	1201	RRRLGSSFPFRDRSSAMESYDVIANQPVINDGSGVIRAGFAG DQIPKYCFPNYVGRPKHVRVMAAGLEGDIFIGPKAEHRLGLSI RYPMEHGIKVDNMDRIHQYVYSKQDLOTFSEHFPVLLTAEPL NPRKREAAAEVFFETENVPAFISMQAVLSLYATGRITGVVLD SGDGVTHAVPIYBGFAMEHSIMRIDIAGRDVSRFLRLYLKKEG DFHSSESPFIVKIKERACYSINPQKDETELETKAQYLLPDGS TIEIGPSRFAPBELLFRPDLIGESSEIHEVLFVIAIQGSDMLR RTLESINVLISQGSITFLKGFDRLLSEVKLAPKDWKIRISAPQ RLYSTWIGGSILASLTFFKKNWVSKKEYEEDGARSIRHRTF
6364	21	1201	RRRLGSSFPFRDRSSAMESYDVIANQPVINDGSGVIRAGFAG DQIPKYCFPNYVGRPKHVRVMAAGLEGDIFIGPKAEHRLGLSI RYPMEHGIKVDNMDRIHQYVYSKQDLOTFSEHFPVLLTAEPL NPRKREAAAEVFFETENVPAFISMQAVLSLYATGRITGVVLD SGDGVTHAVPIYBGFAMPHSIMRIDIAGRDVSRFLRLYLKKEG DFHSSESPFIVKIKERACYSINPQKDETELETKAQYLLPDGS TIEIGPSRFAPBELLFRPDLIGESSEIHEVLFVIAIQGSDMLR

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6355	234	1999	RTLFSNIVLSGGSTLFGKGDRLSLSEVVKLAPKDVKIRISAPQE RLYSTWIGGSIILASLDTFKCMVSKKYEEDGARSIRHRTKF KKSKRSCAARAQAQPSRERREVLISRTFSGLRLRGESNSGCCIM ASKGTALFDEYGRFLIIKDQQRKSRLMGLSLKSHIMAAKAVA NTKRTSLQPNGLDQMVDKGDVTVINDGATILSMDDVDHQIAK LMVLESKSQDDEIGDCTTGVVVLAGALLEEAEQLLDRIHPRI ADGYEQAAARVAISHLDKIDSDVLDIKDTEFLIQAKTTLGSKV VNSCHQMRETAIVNAVLTIVADMERRDVDFELIKVEGKVGGRLED TKLIGKIVDVRDPSHFQPKKIVBDKAIJITCPFPFPKPKTKKH LQVTSVDYKALQKYEKEFESHIQIKENGANAIQCMGFDEE ANHLLQNLPAVRWVQPEELIALATCGRTVPFESLTAEKL GFAGLVQISPGTTKDEMLVLSQCKMSRATITPISGNMILIEE AKRSLHLDLCVIRNRLDRNVVYQGGAAETSCALAVQEAQKCP TLEQYAMRAPADALEVIPMALSSENGMPTQMTTEVRARQVKEM NFALGIDCLEKGTNDMKQHVETLIGKKQCSLATQVNRMLLK IDDIRKPGSEEE
6366	257	1898	QNKGAHSSTFWVLISITPLGAAVAMLCKEGGITVLGLNAVFDITLV IGKFNVLIVQKVLHDKDSLNLGNMLNGLLFRMTLLTSGGAG MLYVNRIMGTGPPAFTEDVNPASPADSMVRAVNYITYSLNA WLLLCFPMWLCFENSMGCIPLIKSIDNRVIALAALWFLGILIC QALCESDGRKRRILUTLGLGFVPIPLPASNSFFRFRGVFAERVL YLPSVOTCVLLTFQFALSNSHTKKKLLANVVLGLFIDITLRCV LRSGEWRSEQLFRSALSFLPNAKRVYHTEKILADKQNTAAI RYREAVRLNPKYVHAMNGLNLKERNLQEAELLSIAVQIQ PDFAAAMNGLIVQNSLKRFEAAESYKTAIKHRRKYPDCYVNL GRILYADLNHRVDAINAMENATVLKPESSAMNNINIILONTGNL AQAEAVGREALELIPNDHSLMFLANVLGSKQYKESSEALFLKA IKANPNAASYHONLAVLYHRWGLDLAKKHVETSLQLDPTASGT KENYGLLRKRLBLMQKRAV
6367	287	1934	STGPPVMLVLSILLYTCMFQDSVAFEDV/ASPTQESNALLDPS QONLYRDVMQETFKNLTSVGKTKVQNIIDEYKPNRNLSLMRE KLCESKESHGOGESFNQIADDMIAKRTLPGITPCSSVCGEVSOT GBSNLNTHRADTGKHSSEYQYQGENPYRNKCKKAFYLSDFSQ SHQACTKEKYDQKACITETFSHECTQRHVMSGGDPYCKAF CGKAPYLLNLCLIHERTHTGKPYCKQCGKCAPTRSTLPIHER THGVNADECKEGNAPSFSSEIRRHKRSHTGKPYECKQCGKV FIFSSSIQYHKMTHTGKPYECKQCGKAPROGSHLQJUGRTHTG RKPYECRQCGKAFRCTSDLQREKHTITEDKPYGCKQCGKFRCA SOLQIHERKTHSGEKPECKEKGKVPKYFSSLRHERHTHGEKPH ECKQCGKAFRYFSSLIHERHTHGTOKPYECKQCGKAPTCSSSIR YHERHTHGEKPYRCKHCGKAFISNIRYHERHTHGEKPYCKQCG KGAFTIRASSCREHRTHTTNR
6368	1	327	RPVPAKLNRSWPRTAGALPLRPPLPLMAVHDEVEIETDEQYDE DSEITYFPYCPGQDNFSITKREDLNGEDVATCPSCSLIKVIYDK DQFVCGETVPAPSANKELVKE
6369	1	1745	AGCCCTFRFPFPFGGSLCHNFCRSAACITVTRTHGSPREDTGT FDSRPMFQDSVAFEDV/ASPTQESNALLDPSQNLRYRDMQET FKNLTSVGKTKVQNIIDEYKPNRNLSLMREKLCESKESHGOG ESFNQIADDMIAKRTLPGITPCSSVCGEVSOTGBSNLNTHRAD TGKHSSEYQYQGENPYRNKCKKAFYLSDFSQSHLQJUGRTHTG RKPYECRQCGKAFRCTSDLQREKHTITEDKPYGCKQCGKFRCA SOLQIHERKTHSGEKPECKEKGKVPKYFSSLRHERHTHGEKPH ECKQCGKAFRYFSSLIHERHTHGTOKPYECKQCGKAPTCSSSIR YHERHTHGEKPYRCKHCGKAFISNIRYHERHTHGEKPYCKQCG KGAFTIRASSCREHRTHTTNR

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6370	1711	329	SSLHIHERHTHGDKPYECKVCKVQKAPFCSSTRYHERHTHGEKPYECKHCKGKAFISNIYIRYHERHTHGEKPYCKQCKGKAFIRASSCRERHRTHTINR FVLSGQRLRTERTWFSFGLRGQAAAGAAAGAGAGLLRLLLGCGALVGGRLPVTMTTANAGNASKTVFSLSYLHRTPQEAIMDGTSLAVSPRSLHSLMCPICLMDLQITMITTECLHHRFCSDCIVTALRSGNKCEPTCRKILVSRSLRDPNFDALISKTYPSEEEYEAHQD RVLRLSLRLHMQALSSITSEGLGQAMHRAQRVRRPIPGSDQQTWMSGGEERNGGGSDGWSDSAFDSAPGAPAPRPGGGAGGSSVOTGGGTGGGGGAGSLSGGGGTGLGGTGLSPSPGAPSPPRGGGELRLVPRPHLAVEKGEYCTQTYVYKTVTGNATVDELSK LALRIALERKQKQAGEPGPGGGASDTGPGDGGGGGGAGG DGPSEFALPSLGGVSSEKQYTIYIAPGGAFITLNGSLTLELVNE KFWKVSRLPELCYAPTQDK
6371	3	288	GVAMSTAMNPGTQSPQPRPDKGSPFLHRLGCKSPKPKMK LHNINFNALCRKESKEYLECRMERKLMLQEPLEKLGFGDLTSG KSEAKK
6372	2141	625	RVSAIASBGFABERYKLEDLLEKSFSLVNPSPLOPVNVCVMRH LEKVPSEKILVMADKELYRACAVVRRQIQNDQALFGDEVSPLKQYILEKESALFSTELSVLHNSPSPKTRQGEVQVQLTRM VERNVRLDMVQLQFRLFLPRTNRVHVTCLRAELMSLHDLVGG EICVLPCHRTFWCLDACIRFPVSGKARLQGLGFLGGKGE QVIGDLNMLCDPFAINTALSLTVRHLCELVQGLTERDSPELL LLELLALLGQQAQNDMDSQVPEKPMVEVELTRFLPLMSFLVD DYTENVQDKLPAEKAPVSPNTLPESFTKGLOROMACEVGLY VYLHITQKRNHALLRLPLGVTFPGDLAFGDIPLHLLTGNLAL LADEFALEDPCSSLFDGFFLTASPRKENVHRHALRLIHLHPRV APSKLEALQKALEPTQQSGEAVKELYSQLGEKLEGLDHEKPSPA QAETTFALMLPLPSVPAAPL
6373	67	711	PSRAARASPARLPAMVSWITISRLVVLITGLTYPAYTSYZAVKSK DIKEYVGMWMIIFALFTTAETTDIFLPCNFPFYELKIAFVA NLSPTTKGSSLLYRKFPVHPTLSSKEKEIDDCLVQAKDRSDYAL VHFQRGLNVATAAVWASXGGGALSSELRSPSNQDLITTTROD GRAPFGOPFPFGSGRASKHGGPMSRASAASSGTA
6374	535	2105	HKLPSCSYSTSEFSSRTHHSCPTHTCYFSTTFTSTADIS CPHTFCNYSTSTILSSTRDSHCPTHTONYSTSTFLSSTRD HSCPTHTSCNYSTSTILSSTRDSHCPTHTPCNYPRIIRLSSC CPARLQTRGSINGKEVLGSGQVLEDTVLPFEGGGQDDRGITN DISVLRLVTRRGQADHFTQTPLDPSGQVLVVDWRRFDHMQH SQGHLITAVADHLFKLTKTSNWLGRFSIAELDTPSWTAEGVAA IEQSVNEKIRDLPLVNRRLSDDEVEQVSRGLPDDHAGFIR VVNIHGVDSNMCCGTHVSNLSDQVIKILGTEKQKKNRNLNLI FSGNRVLKMMRSRSHGTREKALTALKOGAEDHVAVKLQNSTKIL QKNLNLRLKLAHVIAHSLRNSPDGCVVILHRKEDGSFNNIIL ANRIGSRETLPLTVGDEKGGGLFLLAGPASVETLPGPRVAEVL EKGAGKGRQFGKATMSSRMAQALLQDITQSGAKK
6375	1	1535	ATNAAATRPVLPBAGCBGRKRWNSRSGHGGGLGAWSKT CPGRRPRPGQQVVRGPTMVAIVAVFGLLASCGLLESRCAK PPGRCASNPSFLRPGQDFQVYVFLAALADQAPVLYKLYQHYVY FLRGQILAILYVGLHASTVFLGIVASSLVDLGGRKSCVLPSLYI SLOCITKLISQDYFVLLVGRALGGLSTALLFSAFEAWYTHRHVER HDPEAWIIPATFARAFAFWHVLAVAGVAAZAVASWIGLGPVAP FVAALPLALAGALALRNWGENYDRQAFSTCAGGLRCLLSDR RVLLGLTICALFRSVPITFVPLNTPVLDPHGAPLGITIPSPVAA SLGSSLYRIATSKRYHLQPMHLLSLAVLIVFSLPNTLPSTSP GQSPVESFIAFLLELACGLYFPFMSFLRRKVIPTBOAGUIN

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *Stop Codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
6376	380	1437	WFRVPLHSLACLGLLVLEHSDRRKGTNRNFSTCSAVHMHALLAV VGLFTVVRHDAELRVSPSTEEPYAPEL ISSTIDHRYRPSFLVNSRMPKSKESWSORKNRAAHKSGQBRQ QDLIAALGKMLGSPKSSVTTWQPLKLPAYSQLTSLVRRATLKE NEQIPKYEKIHNFVHTFRGPHWCEYCANFMWGLIAQGVKCADC GLAVHMQSKSWPNDKFDLKHVKVYSCDLTTLVKAHTTKRPM VVDWCIRETSRGLNSBELLYVSGFDLIEDVMAFDRDQEKAD ISVNMVEDINTITGALKIYFRDLPIPLTITVDYAPKPTESAKIND PDEQLETHLSEALKLLPPACHCTRLYLNAHLKRVTLHEKSNLMA ENLGIVFPGPTLMRSPELDAMALANDIRYQLRVELLINDEDILF SRINRRSSRRPREPPGPRRRRRRRRDPPTMTSEKFTFQRRTE QRVEDVRLREQHPTKIPVIERKYKELQPLVLCCKPLVPDHY NMSELKIRRRQLQNAQAFPLVNGHSMVSVSTPISEVYESE KDEGFLVNVYASQETFGMKLV GAGPWEAFPDGTRRRRRRLPYKRPORVQGGDSGRNNMVA DLALIPDVDIDSDGVFKYVLRVNSAPSGAASKEVIRVOYK WAEYHADIYKVSQDMQKGCDCGLGGRIHSGQDKKHVYV YSMAVGPQAHAISTEKIKAKYDDEVWANDGY BRAGSPSPRAALRRCAPRSQAPRPFRAACRRSFQSGQRAY LNSVNVVNGQSPABERVLLGLHGAADITYCENCKITLQWYSHA FES9QYKIBKIKITILAMIKDNGWD PAGVQGRGAPPTGSESNMADLTVVRGISTAFNKKEKTIQGG GVDEPISGTQFQAAGGIFLANTYKTTETPDLADLAKTCOTWACI LERSKCFKCDMTVKYDSELRRKYGVBKALSLRAMKAAREE CPVFTPPGGETLDQVMRGIDFFEFQCLILKEADCKEQFSQGS PSCNLETSIAEIPFLGKHSSKVNISDSOIPGLAASVLYVSHSAY MRSLEFDYFLDLKCSLPATLSRSELMSVTNPTGMSLFTINFE REVKPTVQCITMNLQDHLNGLTENSLENLPSKSNHFEPIKQVP LALFTSLLC AVVRAQSGSEFGSGAGVRPQAAAFNSVFLSSLCKFSPDGK YLASCQYRLVVRDNTLQTLQTLCLDQIQHESADSLFLC AMVREGLVQWSLEQPEWHCKIDBGSAGLVASCSGPDGRHILNT TEFHLRTITWMSCTKSVSYIKYPAKLGITFTTADRYMALAER RDCHDVITIPVCSQWGLRHFTDTQDLTGIEWAFNGCVLAVND TCLBYKILALYLDGLRLTYSAWESLGRVANSPPSSQFLAVG SYDCKVRLMHVTTWHITPETHALANJPHIVVKEAKESPLG LCLSPFPFPRAGAGPLPSSSEKYEIASVPLQTLKPTTDRAFP KIGIGMLAFSPDSVFLATENDMIPNAVNVWDIQKLRLVNTLEQL SPVRAPQNDPQOPRIACITGQSRVLYNSPAGCMSQVPCBGDPA VLSCWLHSGDSMALIKDHFCLCLFETEAUVGTACRQLGHT FEEDERNLCLLAPLKGHDGIVDINSDCEPKSLGARTTNK KHVLETEKPKDWRQHRKEEMKSHKLEEFWMLKSEVILYY TVEKGNISSQLKHYPNWSMKCHQQQLQRMKENAKHNRQYKIFL LENLTSRYEPCVLDLKMGTPOHGDASBESKAANQIRKQQSTS AVIGRVQCGMQVQAQSGQLMNKXKHOKLSVQGFKEALPOFF HNGRYLRRELQPVVKLITELKAVLERQESTRYFSSSLVYDYG KERPEVVLDSADLDELSESADESAGAYKPTGASSVDYRM IDIAHTTCRLYRGEDTVHBBQDAGYIFGLQLSLIDIVTSESESG B SPAPGKPSHSGSOPARAAAPAMPFAKQKSGKHGAASPSFK GHIPSARPLAAPPAAPACRSPPQAGASPCAPAPSLASOP AARAAAPAMPASAKQKSGKHGAASPSFKANPSGAGDAVAK PPPAQPPPPPPAPHPQHQHQHQHQHQHQHQHQHQHQHQHQHQ SSSSSASASASASASASASCSRRLOALNLPFYALVAAAAS GWCVHHVLEEVOQVRRSHQPSRORLEOQGLQGVQKQVOSLOA TFGTPEILRSSQHKDLTEKAVKGSESEVSRISVLEVLQKLQNEI
6377	2311	1845	
6378	666	191	
6375	35	378	
6380	1414	462	
6381	1668	218	
6382	2	1062	
6383	3159	1061	

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5384	738	1904	LKDLSDGIHVVDKARERCTPSLENTVEERLTELKTSINDNIA.F TEVQKRSQKEINDMKAVASLESEBGNKQDLKALKRAVKEIQTS AKSRWDMEALRSLTQTMESDIYTRVRLVSLKQEQQAFKEAAD TERLALQALTRKLLRSESESVRLPEEIRRLBELRLKSDSHGP KEDGGFRHSBAFALQKQSGQLDSKRLQHVDEGLSMQVARSQT ESLESLASKSGEHRQRLAALQGRLEGLOSSEADCGGLASTVRSI GETQLVLVQDVEELKRSVDELSTVSESLKQVQBCEVHTLLSCDQA QAARLPQDFLDRISLNLKASVSQVSAUACLRLPVAVDLSLWAY SVKIETNNNNLESAGLLDRLNDRLPLVVKYKIHKKV TWEPVCLTRLLHLQWQPLPPFPSSSNEEDAEANALGEER AAPDSGKKPKTKPKCKQDNEPKQKPSAYALPFRDTQAALKQC NPNATPGEVSQIVASMNDSLGREKQVYRKTEAAKKEYLKALA AYRASLVSKAANBSAQAETIRSVQQTASINLTSSLLNTPLSQ HGTVASPOTLQCSLPSIAPKPLTMLPMQIVTSVTIAANMP SNIGAPLISSMGTTMVGSAPSTOVSPSVTQQHMQQLQCCQCCQ CCQCCQCCQCCQCCQCCQCCQCCQCCQCCQCCQCCQCCQCCQCCQ LQCCQCCQCCQCCQCCQCCQCCQCCQCCQCCQCCQCCQCCQCCQ TSPIPAIGSPQASQCHSQISQSGTCTQVLSQVSLF PRVKAADVAGGAQVVSAGQAKSNGENGFAPAPAGSLSGSTRS LACQAPATTDLSLGSGBSEANQFAERKIDKCFIVGSGQAGZ ALEEYPLEVLRGRSRLWLMNNDWAKKFKIRLRQCGKQIP PSLRGRAMQVLSGQVKLQNGPKGFDLDSGSGDFHLYTJED LHROFPHEMPVSRGSGHQDQIPRV.KAVTLVREPGVQQAAP IAAVLMMHMPAQFVCLVQICERLYPGYRSKLEIQLDGEILL FSLQKVSVPVAKHLSRQKIDPLLYTWNPCAFSRTLPSWVSL RVWDMFCEGVKIIPIRVGLVLLKHALGSPKVKACQGGYETIER LRLSPKIMQBAFLVQEVVELPVTTERIHRHILQLRWQETIRG ELQCRSPRLHGAKALDAEPGPRLQPSPSIRLPDLAPLPGS KAKPKPKQAQKEQRKQMKGRGLKPKPAFNQANVVAAGDACP PQHVPKDSAPKQAPQDLAPQVSAHRSQESLTSSESDTYL TVGSPFLYLGIMQASRLKRLHMLATEPPPGITCQDQMDL RAQILGANTPVEGVSFLKEVIIIPRYVPEPQPIRFLPTIYHPN IDSKGICLQVLKLPKQANRPSINLAVLTISILGMSSEPNFDD PLMADISSEFKYKQKPAFLKARQWTEFLARQKQADSEENLNL PEAGDSRVHNSQKKAQGLVQIKKFPV PGTHASADAWADANAQPNMKNKAAAPPTDTRRELALVYK KQELAETLANLERQIYAFEGSYLEDQYVNIIRGWDRLYTKQ NSNKNDRNRNKKFKAERLFSKSSVTSAAVSALAGVQDCLTEK REPGSGTSDTSDFPNQENTSPQEDPEDLDGSGVQGVKPKAAS STSSGSHSHSKKRNKRNKSPSGMFDYDFEIDLKLNKPRADY PGTHASADAWADANAQPNMKNKAAAPPTDTRRELALVYK KQELAETLANLERQIYAFEGSYLEDQYVNIIRGWDRLYTKQ NSNKNDRNRNKKFKAERLFSKSSVTSAAVSALAGVQDCLTEK REPGSGTSDTSDFPNQENTSPQEDPEDLDGSGVQGVKPKAAS STSSGSHSHSKKRNKRNKSPSGMFDYDFEIDLKLNKPRADY APGDRMAGHRLVLVGLDLHPIRNCNSLPAKFKLLVPRKQIH LCTGNLTKESYDYLKTLGADVHVRGDFBNINYPBQRVTVTG QFKGLLHGQVTPHGDMSALALQGRQFDVDILISGTHKFEAF EHRKFTYFNSATATAYNALETNITPSFVMDIQASTVTVVYVQ LIGDQVYKRIEYKK GERRKGRKARQKAPAPAPAPAKMSKERTRELLDLPNQCSSGSG LTAICQDDGQFVQVTONSPAAARTGVKQGDQIVGATYPENLQ SGEVTCLINTMCHTITVQLKLRHGRDFFPSLQQTWDP VWNSKTECYLSIQTCENTFANINENVNCIVISSLVTCORRLKA MSLGLSRNQLARAVINPNMDFCTKDLTLTSERIIAY:RDFNE DQKKAETAYAMKHSPPVAKICLIHGPPGTGSKSTVGLYLRL
5385	2	1584	PRVKAADVAGGAQVVSAGQAKSNGENGFAPAPAGSLSGSTRS LACQAPATTDLSLGSGBSEANQFAERKIDKCFIVGSGQAGZ ALEEYPLEVLRGRSRLWLMNNDWAKKFKIRLRQCGKQIP PSLRGRAMQVLSGQVKLQNGPKGFDLDSGSGDFHLYTJED LHROFPHEMPVSRGSGHQDQIPRV.KAVTLVREPGVQQAAP IAAVLMMHMPAQFVCLVQICERLYPGYRSKLEIQLDGEILL FSLQKVSVPVAKHLSRQKIDPLLYTWNPCAFSRTLPSWVSL RVWDMFCEGVKIIPIRVGLVLLKHALGSPKVKACQGGYETIER LRLSPKIMQBAFLVQEVVELPVTTERIHRHILQLRWQETIRG ELQCRSPRLHGAKALDAEPGPRLQPSPSIRLPDLAPLPGS KAKPKPKQAQKEQRKQMKGRGLKPKPAFNQANVVAAGDACP PQHVPKDSAPKQAPQDLAPQVSAHRSQESLTSSESDTYL TVGSPFLYLGIMQASRLKRLHMLATEPPPGITCQDQMDL RAQILGANTPVEGVSFLKEVIIIPRYVPEPQPIRFLPTIYHPN IDSKGICLQVLKLPKQANRPSINLAVLTISILGMSSEPNFDD PLMADISSEFKYKQKPAFLKARQWTEFLARQKQADSEENLNL PEAGDSRVHNSQKKAQGLVQIKKFPV PGTHASADAWADANAQPNMKNKAAAPPTDTRRELALVYK KQELAETLANLERQIYAFEGSYLEDQYVNIIRGWDRLYTKQ NSNKNDRNRNKKFKAERLFSKSSVTSAAVSALAGVQDCLTEK REPGSGTSDTSDFPNQENTSPQEDPEDLDGSGVQGVKPKAAS STSSGSHSHSKKRNKRNKSPSGMFDYDFEIDLKLNKPRADY PGTHASADAWADANAQPNMKNKAAAPPTDTRRELALVYK KQELAETLANLERQIYAFEGSYLEDQYVNIIRGWDRLYTKQ NSNKNDRNRNKKFKAERLFSKSSVTSAAVSALAGVQDCLTEK REPGSGTSDTSDFPNQENTSPQEDPEDLDGSGVQGVKPKAAS STSSGSHSHSKKRNKRNKSPSGMFDYDFEIDLKLNKPRADY APGDRMAGHRLVLVGLDLHPIRNCNSLPAKFKLLVPRKQIH LCTGNLTKESYDYLKTLGADVHVRGDFBNINYPBQRVTVTG QFKGLLHGQVTPHGDMSALALQGRQFDVDILISGTHKFEAF EHRKFTYFNSATATAYNALETNITPSFVMDIQASTVTVVYVQ LIGDQVYKRIEYKK GERRKGRKARQKAPAPAPAPAKMSKERTRELLDLPNQCSSGSG LTAICQDDGQFVQVTONSPAAARTGVKQGDQIVGATYPENLQ SGEVTCLINTMCHTITVQLKLRHGRDFFPSLQQTWDP VWNSKTECYLSIQTCENTFANINENVNCIVISSLVTCORRLKA MSLGLSRNQLARAVINPNMDFCTKDLTLTSERIIAY:RDFNE DQKKAETAYAMKHSPPVAKICLIHGPPGTGSKSTVGLYLRL
5386	819	195	TVGSPFLYLGIMQASRLKRLHMLATEPPPGITCQDQMDL RAQILGANTPVEGVSFLKEVIIIPRYVPEPQPIRFLPTIYHPN IDSKGICLQVLKLPKQANRPSINLAVLTISILGMSSEPNFDD PLMADISSEFKYKQKPAFLKARQWTEFLARQKQADSEENLNL PEAGDSRVHNSQKKAQGLVQIKKFPV PGTHASADAWADANAQPNMKNKAAAPPTDTRRELALVYK KQELAETLANLERQIYAFEGSYLEDQYVNIIRGWDRLYTKQ NSNKNDRNRNKKFKAERLFSKSSVTSAAVSALAGVQDCLTEK REPGSGTSDTSDFPNQENTSPQEDPEDLDGSGVQGVKPKAAS STSSGSHSHSKKRNKRNKSPSGMFDYDFEIDLKLNKPRADY PGTHASADAWADANAQPNMKNKAAAPPTDTRRELALVYK KQELAETLANLERQIYAFEGSYLEDQYVNIIRGWDRLYTKQ NSNKNDRNRNKKFKAERLFSKSSVTSAAVSALAGVQDCLTEK REPGSGTSDTSDFPNQENTSPQEDPEDLDGSGVQGVKPKAAS STSSGSHSHSKKRNKRNKSPSGMFDYDFEIDLKLNKPRADY APGDRMAGHRLVLVGLDLHPIRNCNSLPAKFKLLVPRKQIH LCTGNLTKESYDYLKTLGADVHVRGDFBNINYPBQRVTVTG QFKGLLHGQVTPHGDMSALALQGRQFDVDILISGTHKFEAF EHRKFTYFNSATATAYNALETNITPSFVMDIQASTVTVVYVQ LIGDQVYKRIEYKK GERRKGRKARQKAPAPAPAPAKMSKERTRELLDLPNQCSSGSG LTAICQDDGQFVQVTONSPAAARTGVKQGDQIVGATYPENLQ SGEVTCLINTMCHTITVQLKLRHGRDFFPSLQQTWDP VWNSKTECYLSIQTCENTFANINENVNCIVISSLVTCORRLKA MSLGLSRNQLARAVINPNMDFCTKDLTLTSERIIAY:RDFNE DQKKAETAYAMKHSPPVAKICLIHGPPGTGSKSTVGLYLRL
5387	1	662	PGTHASADAWADANAQPNMKNKAAAPPTDTRRELALVYK KQELAETLANLERQIYAFEGSYLEDQYVNIIRGWDRLYTKQ NSNKNDRNRNKKFKAERLFSKSSVTSAAVSALAGVQDCLTEK REPGSGTSDTSDFPNQENTSPQEDPEDLDGSGVQGVKPKAAS STSSGSHSHSKKRNKRNKSPSGMFDYDFEIDLKLNKPRADY PGTHASADAWADANAQPNMKNKAAAPPTDTRRELALVYK KQELAETLANLERQIYAFEGSYLEDQYVNIIRGWDRLYTKQ NSNKNDRNRNKKFKAERLFSKSSVTSAAVSALAGVQDCLTEK REPGSGTSDTSDFPNQENTSPQEDPEDLDGSGVQGVKPKAAS STSSGSHSHSKKRNKRNKSPSGMFDYDFEIDLKLNKPRADY APGDRMAGHRLVLVGLDLHPIRNCNSLPAKFKLLVPRKQIH LCTGNLTKESYDYLKTLGADVHVRGDFBNINYPBQRVTVTG QFKGLLHGQVTPHGDMSALALQGRQFDVDILISGTHKFEAF EHRKFTYFNSATATAYNALETNITPSFVMDIQASTVTVVYVQ LIGDQVYKRIEYKK GERRKGRKARQKAPAPAPAPAKMSKERTRELLDLPNQCSSGSG LTAICQDDGQFVQVTONSPAAARTGVKQGDQIVGATYPENLQ SGEVTCLINTMCHTITVQLKLRHGRDFFPSLQQTWDP VWNSKTECYLSIQTCENTFANINENVNCIVISSLVTCORRLKA MSLGLSRNQLARAVINPNMDFCTKDLTLTSERIIAY:RDFNE DQKKAETAYAMKHSPPVAKICLIHGPPGTGSKSTVGLYLRL
5388	1	662	PGTHASADAWADANAQPNMKNKAAAPPTDTRRELALVYK KQELAETLANLERQIYAFEGSYLEDQYVNIIRGWDRLYTKQ NSNKNDRNRNKKFKAERLFSKSSVTSAAVSALAGVQDCLTEK REPGSGTSDTSDFPNQENTSPQEDPEDLDGSGVQGVKPKAAS STSSGSHSHSKKRNKRNKSPSGMFDYDFEIDLKLNKPRADY PGTHASADAWADANAQPNMKNKAAAPPTDTRRELALVYK KQELAETLANLERQIYAFEGSYLEDQYVNIIRGWDRLYTKQ NSNKNDRNRNKKFKAERLFSKSSVTSAAVSALAGVQDCLTEK REPGSGTSDTSDFPNQENTSPQEDPEDLDGSGVQGVKPKAAS STSSGSHSHSKKRNKRNKSPSGMFDYDFEIDLKLNKPRADY APGDRMAGHRLVLVGLDLHPIRNCNSLPAKFKLLVPRKQIH LCTGNLTKESYDYLKTLGADVHVRGDFBNINYPBQRVTVTG QFKGLLHGQVTPHGDMSALALQGRQFDVDILISGTHKFEAF EHRKFTYFNSATATAYNALETNITPSFVMDIQASTVTVVYVQ LIGDQVYKRIEYKK GERRKGRKARQKAPAPAPAPAKMSKERTRELLDLPNQCSSGSG LTAICQDDGQFVQVTONSPAAARTGVKQGDQIVGATYPENLQ SGEVTCLINTMCHTITVQLKLRHGRDFFPSLQQTWDP VWNSKTECYLSIQTCENTFANINENVNCIVISSLVTCORRLKA MSLGLSRNQLARAVINPNMDFCTKDLTLTSERIIAY:RDFNE DQKKAETAYAMKHSPPVAKICLIHGPPGTGSKSTVGLYLRL
5389	1074	497	APGDRMAGHRLVLVGLDLHPIRNCNSLPAKFKLLVPRKQIH LCTGNLTKESYDYLKTLGADVHVRGDFBNINYPBQRVTVTG QFKGLLHGQVTPHGDMSALALQGRQFDVDILISGTHKFEAF EHRKFTYFNSATATAYNALETNITPSFVMDIQASTVTVVYVQ LIGDQVYKRIEYKK GERRKGRKARQKAPAPAPAPAKMSKERTRELLDLPNQCSSGSG LTAICQDDGQFVQVTONSPAAARTGVKQGDQIVGATYPENLQ SGEVTCLINTMCHTITVQLKLRHGRDFFPSLQQTWDP VWNSKTECYLSIQTCENTFANINENVNCIVISSLVTCORRLKA MSLGLSRNQLARAVINPNMDFCTKDLTLTSERIIAY:RDFNE DQKKAETAYAMKHSPPVAKICLIHGPPGTGSKSTVGLYLRL
5390	158	535	GERRKGRKARQKAPAPAPAPAKMSKERTRELLDLPNQCSSGSG LTAICQDDGQFVQVTONSPAAARTGVKQGDQIVGATYPENLQ SGEVTCLINTMCHTITVQLKLRHGRDFFPSLQQTWDP VWNSKTECYLSIQTCENTFANINENVNCIVISSLVTCORRLKA MSLGLSRNQLARAVINPNMDFCTKDLTLTSERIIAY:RDFNE DQKKAETAYAMKHSPPVAKICLIHGPPGTGSKSTVGLYLRL
5391	5386	2897	VWNSKTECYLSIQTCENTFANINENVNCIVISSLVTCORRLKA MSLGLSRNQLARAVINPNMDFCTKDLTLTSERIIAY:RDFNE DQKKAETAYAMKHSPPVAKICLIHGPPGTGSKSTVGLYLRL

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SEQ ID NO:	Predicted beginning nucleotide location corresponding to first amino acid residue of amino acid sequence	Predicted end nucleotide location corresponding to first amino acid residue of amino acid sequence	Amino acid segment containing signal peptide (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop Codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
6392	972	186	LTENQRKHSDESNNAIKRQNRVLVCAFSNAAVDELMMKRTILEF KSECKDKKPNLGNCGDINLVRGPEKSINSEVLKPSLDSQVNRH MKKELPSHVQAMHKKREFLDYQDELRSQRALCRGGREIQROEL DENISVSKERQELASKIKVQGRPQRTQSIILLESIIICCTLS TSCOLLSEAFRGQQVPPFSYVDEAGQSCIEITLTPLIHRCN KLIINGDPKQLPPTVTSIMKQCEYSGTQSMAPCHLEENVEHN MISRLPILQLTVQYRMHPDICLFPSNYVYRNRLKTRQTEATRC SSDWPFQPYLVFDVGDGSERRDNDYINVOEIKLVNEILKIKO KRKDSVFRNIGIITHYKAQKTMIKQDLDEKFORKGPAEVDVDA PQGRQKDCVITCVTRANSIGQSIGFLASHQRLNVITIRAKYSLF ILGHRLTWMENQHWNLIQDAKRGAIKTCCKNYRHDAVKILK LKPVLQRSLTPTTIAPEGSRPQGLPSKLSGFAKTSVAASL YHTPSDSKEITLTVTSKDPERPVPVHDLQDPRLLKRMGIEVEGQ IFLMDPQPSQPHGATPTTGEPPVPHVQLSHVQQAAPAAVAA LSSHKPPVVRGEPFAASPEASTQSKCDDPEELCHREARAFSE GEQEKCSGETHHTRNRSRWDKRTLEQESDSSKKRLL
6393	2017	730	GRYGVGLASSMHRRLQIRLLTMDVRYLTLLRLHPLGEAYATKAR KALEVLESLGCGFQAYRAGQSFPPIYGLSGHLSRQMWLDV VLOTETILACVQDAQVAPILKALIKDFHPCFWQLDCAIDTLR ECRTGRGLAVTSNFRDLRGLGLRLEHDFVLTSLEAGWP KDDPRTPQALRLAHEDPVAAHWGNDVNLCDVQCPRAVGHSL VVGPOALDFVVRDGVPEHILDSLAHLPALDCLESTPOL
6394	1418	511	TGGSMAAVATCGSVAASTGSAAVATASISNVTSPREGRPASV NDSGPRIVSIASTRPSVRNQLLVSTGLPALDQLGGGLAVTV LLIEEDKYNISPLLFKYFLAEGVNGHTLLVASAKEDPANILQ ELDAPLLDDKCKKFEDEDVYHNHTPSSNIMKIAMRYQLPHMR IGPVSSSRFGHYDASKRMPOLIRASNHGFFLPEKISSTLKV EPCSLTPGYTKLLQFQNIITYEEDFGSNGPQKQNRILRTIGTN IGSPLMGDDICCAENGNGNSLTKFLYVLRGLLTSLSACIITM PTHLIQNKAIIVARTLSDVVGLGESFIGSERETNPLYKDYEG LHTRQIPRLNRLICDSVDKDLAFKLKKLFTIERLHLPPLDSD TVSRSSKDLAESSAKELDQPCQAGGKELF
6395	13	658	GAAGAGGAGGAPAKATWAKKATWALVEEPNMLHDEVAHA VLMQDILKEASIRFTLPSGDTGPAKQNFILGCTDQVQ VLTLQGDALSQADVNLKMPRNQLLHFAFREDKQNLQIQDAR NHSQAIYLLTSRDSQYQFKTGAELVLMADVNLQTRAPNRLT TPATLTLEPAASGLTRMFAIPALPSDILAVNYINLNLCLTVYQ LHALQPNSTNFRPAGGAVLHSPGMFENGSRQLELVSHVKVEC VIPHMLDALVYPTVSLQQLQQLKXISVFSYSYRPF
6396	1	1221	PSGRPTPLCCALNRGAARHGSGVGFAPKPTPTSPNGSSVM ESVTFEDVAFPIQWALLDSARRSLCKYRMLDCQRTIASRGT PCKPSCVSLQGRARPKATERGILRATGVAMESQLKPERLPSMQ DILLBEASSRDMQGPQLPLRMQLVPSIEERTPLCRDPRALQ3 PPMSLGCTGLKAAQIQRVVLPVPTLGHRRNPWARDGGE
6397	391	122	ANLSSFSKRGQKQTLIGYSPGTPITVYFMGDAFQSSSQSIPRF IKESLQILLESDSRQIFYPFLCNALFTFVFLYGVLTNSLGLI SDGPHMLPDCALVWGLPALAASRWKATIFSYGYGRILILSGP INGLFLIVIAFVWMSVARIIDEPDILLHTVGVGLIVN IGICAFSHAHSHIAGAGSGSCISSHSHSHIMMGHSHSH GSGAGGMMANMRGVFLHVLDLTSIGIVIVSTVLQPGWFIAD PLCSFLIALLPLSVPLIKDAQVLLRLPPEYKELHIALEK IQKIEGLISYRDPHWRHISAVIAGTHIQVTSNVLRIORIVQV TGILKDIAGVNNLTIOVEKEAYFQMSGLSTGPHIVLANTKQMS MKYCKDGTIYM
6397	391	122	GAGVGRRFATRAPARMIEVVCNDRLRGKVRVKCTDDTIGDLK KLIDAQGTGRNKKIVLKNYITIFKHDSVIGDYIEIDOMLILEY